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## SIX－WHEEL SEWING MACHINE CASTORS．



The cut represents one－half set of castors，which supports two legs of the Sewing Machine．The end with one wheel should be placed next to the operator．The same pattern fits all machines，and can be attached to any one in five minutes．They never need to be taken off，as the machine stands perfectly steady with them on while in use． With these castors on，the heaviest machine can be removed from one room to another with ease．

## Send for Catalogue No．20，and Price－List of Useful Inventions．

## WIESTER \＆CO．， 17 New Montgomery Street，

 San Francisco，Cal．

## GENERAL DIRECTIONS.

Before beginning to draft, study square carefully and locate every line, point and grade; also the names of the different curves on square; so that, when referred to in instructions, you will know just how to place square to get certain dots, lines or curves. This will facilitate your drafting very much, and make it easier for you to learn.

We use the half inches the same as full inches, for convenience only, as it saves the necessity of dividing measures to ascertain what would be one-half of each measure; in drafting patterns, you will remember we only cut one-half of the garment. Always place your lining double on table; then pin pattern to lining and trace all sewing lines, which punctures both pieces at the same time, and makes them just alike.

Note.-When beginning drafting, always take wide end of square in left hand.

2d. Never pick up square in drafting, as you can move it around on the paper with more ease.

3d. In placing square on paper to draw base line or ( I ), always lay it so as to bring line one inch from edge of paper, except for double-breasted garments, which you make four inches from edge.

4th. All seams can be made curved as well as straight.
5th. Seams can be placed to suit the form or the taste of customer or operator.

6th. To cut French back with side form drafted on front take from width of back waist as much as will ${ }^{\text {s }}$ make it the required width to suit the form or taste of the customer, and add same to front waist, making curved line on front to fit into back.

7th. To draft any kind of garment that does not appear in this book all you will have to do is to use the rule for cutting drapery, using up your measure.

8th. To cut Postilion Basque find the distance you wish to have it open below the waist, then square out and add one-half inch to back-slope line, making the skirt one-half inch wide below the opening; make all seams that are to be opened after the same rules.

9th. For vest front find distance you wish it to run below waist line, and make dot, then measure from base line as far as you want the vest to appear, making this dot about two inches nearer waist line than point of vest, on base line these points are generally cut away at the points about two inches, but they can be cut square or rounding if preferred.

10th. For double breasted, when close fitting, cut the lapell on one side only. It can be cut on either side to suit taste; they can be cut to any fashion plate by using the rule for cutting drapery.

11th. To cut coat or rolling collar, draw base line and make dot at cornet of square and neck measure by half inches, calling neck measure one inch larger than it is; then square out by left-hand dot, and make dot at four inches or the width wished for collar at points in front, then square by righthand dot, and make dot at two inches or width to suit taste for back of collar; place "Hip Spring" line to width of front-point dot, and curved edge of square to back end dot, and draw curved line from one dot to the other, add one-half inches to the right of right-hand dot, and make straight line from there to back end dot, which is slope for collar at back of neck, then add one inch to left of left-hand dot on base line from last dot to front width dot, and draw straight line.

12th. For standing collar draw base line, make dot at corner of square and at neck size by half inches only one inch larger; square out at both dots, and make dots at two inches from base line; then place " Hip Spring" line left hand dot on base line and curved edge of square to right-hand dot, and draw curved line; move same curve out to next two dots at same place on square and draw corresponding curved line from one dot to the other; make left-hand outer corner rounding, and right-hand outer corner about one-fourth inch longer than at base line, and draw straight line across end, this end is for back of neck.

13th. In cutting for children you will find curve at narrow end of square very useful for arm hole and, neck, as curve is shorter and was intended for that purpose.

Name,
Residence,
Style, $\qquad$ No. Darts,

Remarks:

| ORDER OF TAKING MEASURES. | ORDER OF DRAFTING. |
| :---: | :---: |
| 1. Neck.... | BACK. |
| 2. Arm Size. | 1. Length of Back. |
| 3. Bust. | 2. Shoulder Slope. |
| 4. Width of Back. | 3. Arm Size. |
| 5. Chest. | 4. Waist. |
| 6. Under Arm.. | 5. Width of Back. |
| 7. Shoulder Slope. | 6. Neck. |
| 8. Waist......... |  |
| 9. Hight of Dart .. | FRONT: |
| 10. Length of Front. |  |
| 11. Length of Back. | 1. Neck .......... |
| 12. Hips | 2. Length of Front |
| 13. Length of Skirt. | 3. Shoulder Slope. <br> 4. Back Arm Seam. |
| SLEEVE. | 5. Under Arm <br> 6. Waist........ |
|  | 7. Bust.... |
| 1. Length. <br> 2. Elbow . | 8. Back Shoulder |
| 2. Elbow <br> 3. Cuff.. | 9. Chest...... |
| 4. Top... | 11. |

## Directions for Taking Measures.

Put a Cord Around the Waist, Tie it Tight, and Push it Down as Far as you can.

## 1st. Neck.-Smooth (inside collar).

2d. Arm-size.-Place tape-measure under arm; draw it close up with end on bone in point of shoulder; take measure tight.

3d. Bust.-Smooth, around largest part of bust, and up over points of shoulder-blades; run your finger under tape in front, and from side to side, lifting tape from bust seeing that it is not too tight, but it must be tight enough to lay smooth after taking finger away in front, and not tight enough to draw in the bust.

4th. Width of Back.-Place your middle fingers under each arm close up and against the body, then measure straight across back from one finger to the other.

5th. Chest.-Measure across the chest two inches above the under arm, and from arm to arm.

6th. Under Arm.-Place end of tape close up under arm, and measure down to string around waist.

7th. Shoulder Slope.-Take end of tape in left hand, and place it on hip bone, (at cord around waist) bringing right hand up to shoulder-point and over front down to cord within two inches of left-hand end of tape; then see what figure comes to seam on shoulder, which is " back-shoulder slope, measure," then see what figure is at cord at right hand, which is " whole slope;" we will say for example that the figure at shoulder seam is 12 and the figure at cord is 27 , we would then write it down 12-27.

8th. Waist.-Take this measure as tight as you can.
9th. Height of Dart.-Take end of tape in left hand, and place it on the most prominent bone in back of neck, bringing the right down one-half inch below the turn of the bust.

10th. Length of Front. -Same as height of dart, and measure to cord around waist, and bring tape close to neck and straight down the front.

11th. Length of Back. -From same point in back of neck down back to cord around waist.

12th. Hips.-Smooth around the larger part of hips about eight inches below cord on waist; add four inches for fullness. For example, if hips measure 38 inches, write it down 42.

13th. Length of Skirt.-From cord on waist to top of foot.

## For Sleeve.

1st. Length.-Taire end of tape in left hand and place same on wrist-bone, bringing right hand to point of elbow, seeing what figure comes to point; then continue up to (where you measured for width of back) arm-pit, which is full length; as, for example, say the length from wrist to point of elbow is 9 inches, and whole length is 21 inches, you will write it 9-21.

2d. Elbow.-Close arm up, put tape around arm, bring it over point of elbow, draw close.

3d. Cuff.-Around largest part of hand over thumb.
4th. Top:-Use arm-size measure.

## TO PLACE MEASURE IN "ORDER OF DRAFTING."

## For Back.

1st, length of back; 2d, shoulder slope for back; 3d, arm size; 4th, waist; 5 th, width of back; 6th, neck.

## For Front.

1st, neck; 2d, length of front; 3d, shoulder slope, by deducting back slope from whole slope, and using remainder for front; 4th, back arm seam, which is taken from back afterdrafting, as per instructions; 5 th, under arm; 6th, waist; 7 th , bust, less width of back; 8th, back shoulder, taken from back after drafting; 9 th, chest; 10th, height of dart; 11th, hips, two-thirds of whole measure.

## DIRECTIONS FOR DRAFTING.



## Plain Back.

1st. Draw base line or (1), and make dots at left hand corner of square and $\frac{1}{4}$ inch to the right.

2 . Move square to right $\frac{1}{4}$ inch, and make dot (2) at length of back; move square to right until back-shoulder slope measure comes to dot (2), and make dot (3) at left-hand corner of square.

3d. By looking on square you will find the words " back arm size;" then place the arm-size measure to dot (3), and make dot (4) in corner of curves.

4 th. Square by dot (2) and base line or (1), and draw waist line or (5).

5th. Move square above waist line or (5), placing corner to base line, and make dot (6) at arrow, and dot (7) at waist size.

6th. Place straight edge of square to dots (3) and (6), and draw line (8).

7th. Square by dot (4) and base line, and draw line (9); move out to junction of lines (8) and (9), and make dot (10) at width of back measure.

8th. Square by dot (3) and base line, and draw line (11).

9th. Find "shoulder point" (line on square) and place it parallel with line (9), with arrow in corner of curves at dot (10); make dot (12), and draw line (13).

10th. Place straight edge of square to dots (7) and (10) and draw line (14),

11th. Square by Ieft hand, dot on base line, and make dot (15) at back neck measure; make line (16) with back arm size curve.

12th. Place straight edge of square at dots (12) and (15) and draw line (17).

13th. Place left-hand corner of square to dot (6), and cross base line with straight edge of square at 14 inches from dot (6), and draw line (18).

14th. Place " hip spring" (line on square) parallel with waist line or (5) with curve to dots (7), and draw line (19), draw line (20) at length of basque skirt.

## French Back with Side Form.



1st: Draw base-line or (1), and make dots at left-hand corner of square and one-fourth of an inch to the right.

2d. Move square to right one quarter of an inch and make dot (2) at length of back; move square to right until back-shoulder slope measure comes to dot (2), and make dot (3) at left-hand corner of square.

3d. By looking on square you will find "the words "Back arm size;" then place the arm-size measure to dot (3), and make dot (4) in corner of curves.

4th. Place under arm measure to $\operatorname{dot}$ (2) and make dot (5) at left hand corner of square.

5 th. Square by dot (2) and base-line or (1), and draw waistline or (6).

6th. Move square above waistline or (6), placing corner to baseline or (1) and make $\operatorname{dot}$ (7) at arrow, and $\operatorname{dot}(8)$ at size of waist and (9) at size of hips.

7 th. Square by dot (5) and base-line or (1) and draw line (11)

8th. Square by dot (4) and base-line or (1) and draw line (12). move out to junction of lines (10) and (12) and make dot (13) at width of back measure.

9th. Square by dot (3) and base-line or (1) and draw line (14).

10th. Place "shoulder-point line" parallel with line (12) with arrow in corner of curves at dot (13) and make dot (15) on line (14); draw line (16).

11th. Measure the distance between dots ( $\delta$ ) and ( 9 ), and add the same to dot (13); make dot (20); add two inches to $\operatorname{dot}(20)$ and make $\operatorname{dot}(21)$.
12th. Turn square over and place "front arm size" cure to dots (20) and (21), so as to follow line (12) about one inch, and draw line (22).

13th. Make dot (25) as far from dot (7) as you like, varying from one to two and a half inches, according to size of waist; add the distance between dots (8) and (9) to dot (25) and make dot (26); turn square over and place "hip-spring" line to dot (13), bringing square to dot (25); draw line (27); move square back to dots (20) and (26) and draw line (28).

14th. Place corner of square to dot (7), making straight edge of square cross base-line or (1) at fourteen inches; make dot (29); draw line (30).

15th. Place one-half the distance between dots (8) and (9) to dot (25), and square by line (6), and make dot (31) at fourteen inches to the right; place
straight edge of square to dots (25) and (31); draw line (32); keep pencil on dot (31) and square to pencil; move left-hand end to dot (26); draw line (33).

16th. Turn narrow end of square to left-hand; find "hip spring" (line on square) and place it parallel with waist line or (6), with curve to dot (23); draw line (35) by commencing two inches to right of waist-line or (6), and continue to the right as far as "shoulder-point" line on square; make dot (34); turn square end for end and place " back arm-size" curve to end of line (35) and center of line (24); draw line (36); place "shoulder-point" line to dot (29) with hip-spring curve to $\operatorname{dot}$ (34), and draw line at bottom of skirt.

## Back, with Seam in Arm-hole.



1st, Draw base line or (1), and make dots at left-hand corner of square and $\frac{1}{4}$ inch to the right.

2d. Move square to right $\frac{1}{4}$ inch, and make dot (2) at length of back; move square to right until back shoulder slope measure comes to $\operatorname{dot}(2)$, and make dot (3) at left-hand corner of square.

3d. By looking on square you will find the words "back arms size;" then place the arm size measure to dot (3), and make dot (4) in corner of curves.

4th. Square by dot (2) and base line or (1), and draw waist line or (5).
5th. Move square above waist line or (5), placing corner to base line, and make dot (6) at arrow and dot (7) at waist size; make dot (8) at " back hip measure,"
6 th. Place square to dots (3) and (6) and draw line (9).

7th. Square by dot (4) and base line or (1) and draw line (10); move corner of square to junction of lines (9) and (10), and make dot (11) at width of back, by half-inches.

8th. Measure distance between dots (7) and (8), and add same to dot (11), making $\operatorname{dot}$ (12).

9th. Square by dot (3) and base line or (1), draw line (13); place " shoulder point" (line on square) parallel with line (10) with arrow in corner of curves to dot (11), and make dot (14) on line (13); make dot (15) at one-half the distance between dots (11) and (14); draw line (16) from $\operatorname{dot}(14)$ to $\operatorname{dot}(15)$.

10th. Square by base line and dot (15); draw line (17) from dot (15) out beyond dot (12); place "shoulder point" line parallel with line (10) with arrow in corner of curves to dot (12); make dot (17); draw line (18) from dot (17) to (12).

11th. Make dot (19) one and a half inches from dot (6), more or less, according to waist size; add distance between dots (7) and (8) to dot (19) and make dot (20); turn square over and end for end, and place " hip spring" line to dot (15),
and bring curve to dot (19); draw line (21); move square from you until curve comes to dots (17) and (20); draw line (22); turn square over and end for end, placing corner to dot (12) and edge to dot (8); draw line (23) and measure it, putting length on measure blank at back arm seam.

12th. Square by left-hand dot on base line, and make dot (24) at "back neck" measure; draw line (25) by " back arm size" curve; place square to dots (24) and (14), and draw line (26) and measure it, and put length on measure blank at back shoulder measure.

13 th. Place corner of square to dot (6), making straight edge cross base line at 14 inches to the right; draw line ( $2 \%$ ); square by one-half the distance between dots (19) and (20) and line (5), and make dot (28) 14 inches to the right of line (5); keep pencil on dot (28), and move left-hand end of square to dot (19), and draw line (29); move left-hand end of square to dot (20); draw line (30).

14th. Turn square, end for end, and place "hip spring" line parallel with waist line or (5), and curve to dot (8), and draw line (31) to the right as far as "shoulder point" line on square, and make dot; place shoulder point line to junction of lines (1) and (27), with curve to dot at end of line (31), and draw line (32).

15th. Skirt can be made as much longer as is wished, by continuing lines (27, 29, 30 and 31) at the same angle as far as is wished.

16th. Make center back seam one inch longer than front; side back seams one half inch longer than front; finish off with slight curve from front to side back seam, and straight from there on to center seam.

17th. For half-fitting make center back piece one inch longer than length of back measure; make curve on hips with "back arm size" curve same as in side form of French back.

## For Drafting Cloak Front.

1st. Draft base line or (1).
2d. Square out at left hand end of base line or (1), and draw line (2); make dot (3) at "front neck" measure, and dot (4) at $\frac{1}{4}$ inch to right; dot (5) at "depth of front neck" measure.

3d. Square by dot (4) and base line or (1), and draw line (6); make dot (7) at "front neck" measure.

4th. Place "back neck" measure at dot (3), and make dot (8) at length of front measure on base line or (1); move square to the right, placing
front shoulder slope measure to dot (8), and make dot (9) at left-hand corner of square.

5th. Move square to right until under-arm measure comes to $\operatorname{dot}(8)$, and make dot (10) at corner of square.

6 th. Square by $\operatorname{dot}(8)$ and base line or (1), and draw line (11); make dot (13) at two-thirds of whole hip measure.

7 th. Square by dot (10) and base line or (1), and draw line (14); make dot (15) at bust measure, less width of back.

8th. Square by dot (9) and base line or (1), and draw line (16).
9 th. Place corner of square to dot (7) and "length of back shoulder" measure to line (16); make dot (17); draw line (18) from dots (7) to (17).

10th. Place "front neck" (arrow on square) to dot (5); bring curve to dot (7); draw line (19).

11th. Turn wide end of square from you; place square parallel with underarm line or (14) with chest measure to base line or (1), and make dot (20) at end of square two inches to the left of under arm line or (14).

12th. Place corner of square to dot (15), and count to you 2 inches, and make dot (21). You will here remember that you added two inches to width of back to make the side form on back, and also that whatever you added to the back must be taken from the front.

13th. Place "front-arm size" curve to dots (20) and (21) so as to follow

under arm line or (14) one inch at dot (21), and draw line (22); move square around until "back arm size" curve comes to dots (17) and (20); draw line (23).

14th. Square by line (14) and dot (21), and draw line (24) to waist line or (11).

15 th. Square by dot (13) and line (11), and make dot (25) eight inches to right of line (11); place "hip spring" line parallel with line (11), and bring curve to dot (25); draw line (26) by commencing two inches to the right of line (11) and continue to the right as far as "shoulder point" line.

16th. Place arrow in corner of curves to end of line (26), and bring " backarm size" curve to line (24) so as to make gradual curve; draw line (27).

17th. Place square parallel with base line or (1) with corner $\frac{1}{2}$ inch to left of dot (5); count to you two and one-half inches and make dot (23); place "back arm size" curve to dots (5) and (28), and draw line (29); place square
parallel with base line or (1) and corner to dot (8); count to you three inches and make dot 30 ; turn square over and end for end, and place "hip spring" line to dot (28) bringing curve to dot (30); draw line (31) from 28 to 30 .

18th. Place corner of square to $\operatorname{dot}$ (8) and count to the right thirteen inches; make dot (32) place corner of square to dot (30); count to right thirteen inches, and make dot (33); continue line (31) from dot (30) to (33) straight; place corner of square to dot (13); count to the right thirteen inches; make dot (34); draw line (35) from dots (33) to (34).

## Eor Drafting Front.

1st. Draft base line or (1).
2 d . Square out at left-hand end of base line or (1), and draw line (2); make dot (3) at "front neck" measure, and dot (4) at one-fourth inch to right; dot (5) at "depth of front neck" measure.

3 d . Square by dot (4) and base line or (1), and draw line (6); make dot (7) at "front neck" measure.

4th. Place "back neck" measure at dot (3), and make dot (8) at length of front measure on base line or (1); move square to the right, placing
front shoulder slope measure to dot (8), and make dot (9) at left-hand corner of square.

5th. Move square to right until back arm seam measure comes to dot (8); make dot (10) at corner of square; move square to the right until under arm measure comes to dot (8); make dot (11) at corner of square.

6th. Square by dot (8) and base line or ( 1 ), and draw waist line or (12); make dot (13) at whole waist measure by half inches, and dot (14) at two-thirds of whole hip measure, by half inches.

7th. Square by dot (11) and base line or (1), and draw under arm line or (15).

8th. Square by dot (10) and base line or (1), and draw line (16); make dot (17) at bust measure, less width of back, by half inches.

9th. Square by dot (9) and base line or (1), and draw line (18); place corner of square to dot (7), with "length of back shoulder" measure to line (18), using full inches, (as you take measure from back shoulder in full inches.) Make dot (19); draw line (20) from dots (7), to (19).

10th. Place "front neck" (arrow on square) to dot (5), bringing curve to dot (7); draw line (21) around curve from dots (5) to (7).

11th. Turn wide end of square from you; place square parallel with under arm line or (15), with chest measure to base line or (17), and make dot (22) at end of square, two inches to the left of under arm line or (15).

12th. Place front arm size curve to dot (22), and make it follow under arm line or (15) one inch, and come to dot (17); make dot (23) half way between the junction of lines (16) and (24) and dot (17), and on under arm line or (15); draw line (24) from dots (22) to (23); move square around till "back arm size" curve comes to dots (19) and (22); draw line (25).

13th. Square by dot (14) and line (16); make dot (26); draw line (27) to waist line or (12); measure distance between dots (17) and (26), and add same to dot (23) and make dot (28); find center between dots (23) and (28), and make dot (29); place front arm size curve to dots (26) and (28), so as.to follow under arm line or (15) one inch, and draw line (30); square by dot (29) and under arm line or (15), and draw line (31) full length of square.

14th. Turn wide end of square from you, placing square parallel with waist line or (12), and "width of back waist" measure at dot (14); make dot (32) at back waist arrow.

15th. Move square to left of waist line or (12), placing corner to dot (32), and measure in to dot (13), which gives you surplus for darts and under arm gore; you now reserve as much as you want for darts, and put the remainder in the under arm gore; for example, say the distance between dots (13) and (32) is seven

inches; we then want two darts of one and one-half inches each, making three inches in all for darts; then deduct the amount for darts (three inches) from the surplus, which is seven inches, will leave four inches for the under arm gore; divide the four inches equally on either side of line (31), making dots (33) and (34); place square to dots (28) and (33), and draw line (35); move square to you until you come to dots (23) and (34); draw line (36); place corner of square to junction of lines (15) and (24), and make dot (37) at first arrow on square, at one and three-quarterinches to the right; move corner of square to dot (11) and parallel with base line or (1); make dot (38) at second arrow on square, at three and one-half inches to the right of dot (11); place back neck measure to dot (3), letting square be parallel with base line or (1), and make dot (39) at height of
dart measure; place square to dot (39), and the same distance from dot (37) as it is from dot (38), and draw line (40); as dots (37) and (38) are only to give the pitch for the darts, while dot (39) is the actual height by measure.

16th. Place square to the right and parallel with waist line or (12), with corner to dot (8); make dot (41) at first arrow, and dot (42) at three-quarters of an inch from (41); dot (43) at three-quarters of an inch from dot (42); make dot (44) one inch from $\operatorname{dot}(43)$, and $\operatorname{dot}$ (45) three-quarters of an inch from dot (44); make dot (46) three-quarters of an inch from dot (45).

17th. Square by dot (42) and under arm line or (15); draw line (47) from line (40), full length of square; square by dot (45) and line (15); draw line (48) from line 40 , full length of square; turn square end for end; place "dart point" to junction of line (40) and (47) with curve to dot (43); draw line (49); move curve to dot (46) with "dart point" to junction of lines (40) and (48); draw line (50); turn square over, placing same point to junction of lines (40) and (48), and bring curve to dot (44); draw line (51); move square to dot (41) and junction of lines (40) and (47); draw line (52); turn square over, and end for end, place corner to dot (41) and eight inches on the square to line (47); draw line (53); keep pencil at eight inches on line (47); move left-hand end of square over to dot (43), and draw line (54); move square to dot (44) and nine inches on line (48); draw line (55); keep pencil on line (48) at nine inches, and move left-hand end of square to dot (46); draw line (56).

18th. Make dots (57) and (58) eight inches to the right of waist line or (12), one-fourth inch either side of line (31); turn square end for end; place "shoulder point" line to line (31); move square either to right or left, so as to bring curve to dots (34) and (57); draw line (59) from dot (34) to dot (57), to line (31); turn square over; place same point to junction of lines (31) and (59), bringing curve to dots $(33)$ and (58); draw line (60) from dots (33) to (58), to line (31).

19th. Place "hip spring". (line on square) parallel with waist line or (12) and curve to dot (14); draw line (61) to right as far as "shoulder point" line; turn square, end for end, and place corner to waist line or (12), and measure to the right thirteen inches; make dot (62); place corner to dot (8); measure 13 inches to right and make dot (63); draw line (64) from dot (62 to (63).

20th. Turn wide end of square to base line even with point of highest dart and make dot (65), one-half inch toward you from base line or (1); draw line (66) from dots (5) to (65); draw line (67) from dot (65) to dot (8); place corner of square to dot (8) and $\frac{1}{4}$ inch from base line or (1), opposite bottom of shortest dart, and make dot (68); draw line (69), keep pencil on dot (68) and move left hand end of square to you till it is parallel with base line; draw line (70) from dots (68) to (63).

21st. For half filling, reserve enough of surplus for two darts, putting in only one, and using only one-half of reserved surplus, leaving the rest in for fullness. As for example, whole surplus is 7 inches, we will take 3 inches for darts, using only one and one-half in one dart, leaving one and a-half for fullness; we then put the remainder which is 4 inches, in under-arm gore, one-half on either side of line (31), as follows: 7 inches surplus, 3 inches for darts, three from seven leaves four; finish under-arm gore, below waist line with straight edge of square; finish hip spring with "back-arm size" curve same as on back. For open back, lay base line to fold of goods when cutting. For princess or wrapper; continue base line and line (61) down to length of skirt measure, cut off square.

22d. Use the same rule in all cases either for one or two darts. You can place darts to suit your own taste, either farther from or nearer to base line; you can also use more or less in darts so long as you use up the surplus. In case of full stomach, use slight curve to finish darts to right of waist line.

## For Drafting Sleeve.



1st. Draw base line or (1); make dot (2) at left-hand corner of square; dot (3) one and a half inches to the right; dot (4) at measure from wrist to point of elbow; dot (5) at full length of sleeve; dot (6) an inch to right of dot (5), which is adding one inch for curve on top of sleeve; make dot (7) by counting to the left of dot (5) three inches for curve on bottom piece of sleeve or inside length.
$2 d$. Square by dot (2) and base line, and draw line (8); make dots (9; and (10) at cuff measure at half inches, by varying one inch, one-half in and out (this is by small figures); draw line (11) from dot (3) to $\operatorname{dot}(10)$.

3d. Square by dot (4) and base line; draw line (12); make dot (13) at one and a half inches from dot (4); move corner of square to dot (13), and make dots (14) and (15) at elbow measure, at half inches, by varying two inches, one in and out; for example, if the elbow measure was twelve inches, we would mark at eleven and thirteen inches by one-half measures. Same rule will be used at cuff and top.

4th. Square by dot (7) and base line, and draw line (16).

5 th. Square by dot (5) and base line, and draw line (17); make dots (18) and (19) at top measure by varying four inches, two in and out, as per example.

6 th. Square by dot (6) and base line, and draw line (20); make dot (21) at onehalf the distance between base line and dot (19), and on line (20).
7th. Place square to dots (3) and (13), and draw line (22); move square to dots (9) and (14), and draw line (23); move square to dots (10) and (15), and draw line (24); place square to dots (13) and (7), and draw line (25); move square to dots (14) and (18), and draw line (26); move square to dots (15) and (19), and draw line (27).

8th. Place "front arm size" curve to dot (21), making it follow line (20) one inch and come to dot (19); draw line (28) from dot (19) to one inch past $\operatorname{dot}(21)$.

9th. Turn square over and end for end, placing same curve to dot (21), so as to join on line ( 28 ) and come to dot (7), and draw line (29); move square around end for end, until "front arm size" curve comes to dot (7) and crosses line (16) about one inch from base line, and comes to dot (18); draw line (30).

10th. To make sleeve gathered at elbow, vary two inches at cuff, one in and out; eight at elbow, four in and out; this is by half inches, as, for example, say cuft measure is eight inches, we would then mark at six inches and ten inches; and elbow measure is twelve inches, we would mark at eight and sixteen inches, always at small figures.

## For Drafting Dolman Sleeve.

Take measure around shoulders four inches below points, which is shoulder measure; also around waist over elbows and hands, which is elbow measure for dolman sleeve.


1st. Draw base-line or (1) and make dot (2) at corner of square; dot (3) four inches down, dot (4) at back shoulder slope measure.

2d. Square out waist-line or (5); make dot (6) at one-half the whole measure around waist over hands and elbows, which is elbow measure (marking by half inches).

3d. Square out line (7) or shoulder measure line, and make dot (8) at one-half of whole measure around shoulders, four inches below points (marking by half inches).

4 th. Square out shoulder-point line or (9); then place square to dots (6) and (8) and line (9) and draw line (10) full length of square; add center back waist width to dot (4), making dot (11); add width of back, on back arm-size line or (10), measuring from back slope line or (9) to curved line for sewing Dolman sleeve to, and make dot (12); place "front arm-size curve" (on square) to junction of lines (9) and (10), and to dot (12) draw curve line (13); place hip-spring curve
(on square) to dots (12) and 11, making it join on line (13), so as to continue on same curve, make line (14); place corner of square to dot (11) and cross line (1) at fourteen inches; and make dot (15); draw line (16).

5th. Place square parallel with line (10), having corner to junction of line (9); make dot (17) at front shoulder slope measure, and dot (27) at full length of sleeve.

6th. Square by line (10) and dot (17); draw line (18); make dot (18) at onehalf of "elbow measure" (by half inches); squaring by line (10) and dot (8), and draw line (19) and make dot (20) at one-half of whole shoulder measure, marking by half inches.

7th. Place square parallel with line (19) with chest measure at dot (20), and make dot (21) at corner of square; place front-arm size curve at junction of lines (9) and (10) and at dot (21), draw line (22) so as to join to line (13).

8th. Place square parallel with line (18), corner to dot (18) and make dot (23) two inches above; place point of square to dot (21) and bring curve to dot (23), draw line (24); place corner of square to dot (23) and square by line (24), make dot (25) at cuff measure, marking by full inches; draw line (26); draw lines (28) and (29) to suit taste.

## For Drafting Under-cuff for Dolman Sleeve.



1st. Draw base line or (1); make dot (2) at corner of square; make dot (3) at under-arm measure, less one inch; make dot (4) at front shoulder slope measure, less four inches.

2d. Square by line (1) and dot (2), draw line (5); make dot (6) at distance between chest dot and bust dot, or dots (17) and (22) on front, move square out to dot (6), and make dot (7) at half of shoulder measure; then place chest measure to dot (7), and make dot (8) at corner of square.

3d. Square by line (1) and dot (4); draw line (9); make dot (10) at distance between chest and bust, dots (17) and (22); "on front;" move corner of square out to dot (10) and make dot (11) at one-half of " elbow measure," marking at half inches.

4th. Turn square around and place corner at dot (11) and parallel with line (9), and make dot (12) two inches above dot (11).

5 th. Place point of square to dot (8), and bring curve to dot (12); draw line (13), turn square over and keep point to dot ( 8 ) and bring curve to dot (3); draw line (14).

6th. Place corner of square to dot (12) and square by line (13); make dot (15) at cuff measure, marking at full inches; draw line (16).

7th. Place point of square to dot (15); bring curve to dot (3); draw line (17).

## For Drafting Gabrael Back.



1st, Draw base line or (1), and make dots at left-hand corner of square and $\frac{1}{4}$ inch to the right.

2d. Move square to right $\frac{1}{4}$ inch, and make dot (2) at length of back; move square to right until back shoulder slope measure comes to dot (2), and make dot (3) at left-hand corner of squarc.

3d. By looking on square you will find the words "back arms size;" then place the arm size measure to dot (3), and make dot (4) in corner of curves.

4th. Square by dot (2) and base line or (1), and draw waist line or (5).

5th. Move square above waist line or (5), placing corner to base line, and make dot (6) at arrow and dot (7) at waist size; make dot (8) at " back hip measure."

6 th. Place square to dots (3) and (6) and draw line (9).

7 th. Square by dot (4) and base line or (1) and draw line (10); move corner of square to junction of lines (9) and (10), and make dot (11) at width of back, by half-inches.

8th. Square by base-line and dot (3), and draw line (12)

9th. Place "shoulder point" line parallel with line (10) with arrow in corner of curves to dot (11), and make dot (13).

10th. Square by base line and left-hand dot, and make dot (14) at "back neck" measure; draw line (15) by "back arm size" curve; place corner of square to dot (14) and edge to dot (13); note distance from one to the other, which you place on measure blank at length of back shoulder; make dot (16) at one-half the distance; draw line (17).

11th. Square by base line and dot (16) and draw line (18) from dot (16), about four inches long.

12th. Measure distance between dots (7) and (8), and add same to $\operatorname{dot}$ (16), making $\operatorname{dot}$ (19), and same to dot (11), making dot (20).

13th. Place "shoulder point" line parallel with line (10) with arrow in corner of curves to dot (20), and make dot (21); draw line (22); draw line (23) from dot (19) to (21); place corner of square to dot (20) and edge to dot (8); draw line (24).

14th. Make dot (25) one and a-half inches from dot (6), and add distance between dots (7) and (8); make dot (26); draw line (27) from dot (16) to (25), and line (28) from dot (19) to (26).

15th. Place corner of square to dot (6), and cross base line with edge of square at fourteen inches to right of waist line or (5); draw line (29).

16th. Square by one-half the distance between dots (7) and (8) and dot (25); make dot (30) at fourteen inches to right of waist line or (5); move left-hand corner of square to dot (25) and draw line (31); move left-hand corner of square to dot (26) and draw line (32); turn square over and end for end, and place hip
spring line parallel with waist line or (5), and curve to dot (8); draw line (33) to right to "shoulder point" line; measure from dot (8) fourteen inches to the right, and make dot (34), and fourteen inches from dot (2) and make dot (35); draw line (36) straight from dots (34) to (35); place "back arm size" curve to lines (24) and ( 33 ; draw line (37).

17th. Make dot (38) one-half inch from dot (6), and dot (39) one-half inch from end of line (15) draw line (40) from dots (38) to (39); make dot (41) six inches to right of dot (38), and on line (29); draw line (42). For all garments open in the back you add one-half inch to back slope line, as above.

For Gabrael Front.


1st. Draft base-line or (1).

2d. Square out at lefthand end of base line or (1), and draw line (2); make dot (3) at "front neck" measure, and $\operatorname{dot}(4)$ at onefourth inch to right; $\operatorname{dot}(5)$ at "depth of front neck" measure.

3d. Square by dot (4) and base line or (1), and draw line (6); make dot (7) at " front neck" measure.

4th. Place "back neck" measure at dot (3), and make dot (8) at length of front measure on base line or (1); move square to the right, placing
front shoulder slope measure to dot (8), and make dot (9) at left-hand corner of square.

5th. Move square to the right until back arm seam measure comes to dot (8); make dot (10) at corner of square; move square to the right until under arm measure comes to $\operatorname{dot}(8)$; make dot (11) at corner of square.

6 th. Square by dot (8) and base line or (1), and draw waist line or (12); make dot (13) at whole waist measure by half inches, and dot (14) at two-thirds of whole hip measure, by half inches.

7th. Square by dot (11) and base line or (1), and draw under arm line or (15). 8th. Square by dot (10) and base line or (1), and draw line (16); make dot (17) at bust measure, less width of back, by half inches.

9 th. Square by dot (9) and base line or (1), and draw line (18); place corner of square to dot (7), with "length of back shoulder" measure to line (18), using
full inches, (as you take measure from back shoulder in full inches.) Make dot (19); draw line (20) from dot (7) half the distance to dot (19); make dot (21).

10th. Square by base line and dot (21), and draw line (22) about four inches long.

11th. Measure distance between dots (13) and (14) and add same to dot (21), making dot (23); add same to dot (19), making dot (24); draw line (25) from dot (23) to (24); place "front neck arrow" to dot (5) and curve to dot (7), and draw curve line to neck.

12th. Place square parallel with under arm line or (15), wide end from you and chest measure to base line; make chest dot at end of square two inches above under arm line or (15); then add distance between $\operatorname{dots}(13)$ and (14) to chest dot, making dot (26); add same distance to dot (17), making dot (27).

13th. Place "front arm size" curve to dot (26), and follow under arm line or (15) one inch, and come to dot (27); draw line (28) from dot (26) to dot (27); turn square around until " back arm size" curve comes to dots (24) and (26), and draw line (29).

14th. Make dot (30) two and a-half inches from dot (8), and add distance between dots (13) and (14), and make dot (31); place square to dots (21) and (30), and draw line (32); to dots (23) and.(31) and draw line (33); to dots (27) and (14) and draw line (34).

15th. Make dot (35) fourteen inches to right of waist line or (12) and eight inches from base line; place square to dots (30) and (35), and draw line (36); to dots (31) and (35) and draw line (37); turn square end for end, and place " hip spring." line parallel with waist line or (12) and curve to dot (14), and draw line (38) to right as far as "shoulder point" line; measure fourteen inches to right of dot (14), and make dot (39); same from dot (8) and make dot (40); draw line (41) from dots (39) to (40).


## For Plain Princess Skirt.

## Front Piege.

1st. Draw base line or (1) and make dot (2) at one and one-half inches to the right of lefthand end of square.

2d. Square by base line at left-hand end and draw line (3); make dot (4) one-half of waist measure, by half inches, and dot (5) at one-half of hip measure, by half inches; draw line (6) from dot (2) to $\operatorname{dot}$ (4).

3 . Square by line (3) and dot (5), and make dot (7) eight inches to the right of dot (5); place "hip spring" line to dot (4) and curve to dot (7), and draw line (8) to the right as far as "shoulder point" line; continue line (8) as far as length of skirt.

4th. Measure to the right of dot (5) full length of skirt, and make dot (9); measure full length of skirt to the right of $\operatorname{dot}(2)$ and make dot (10); draw line (11) from dot (9) to $\operatorname{dot}(10)$; if more fullness is wanted in skirt, add on as much to dot (9) as will make it the required width, and bring line to dot (7).


## Side Gore.

1st. Draw base line or (1).
2d. Square by base line and at left-hand end; draw line (2); make dot (3) at one and a half inches; move corner of square out to dot (3), and make dot (4) at onefourth of the waist measure, by half inches, and dot (5) at one-fourth the hip measure, at half inches; draw line (6) from dot (3) so as to cross line (1) at fourteen inches to the right.

3d. Square by line (2) and dot (5), and make dot (7) eight inches to the right of dot (5); place "hip spring" line to $\operatorname{dot}$ (4) and curve to dot (7), and draw line (8) to the right as far as "shoulder point" line; then continue line (8) as far to the right as full length of skirt, and make $\operatorname{dot}$ (9).

4th. Measure to the right of dot (3) full length of skirt, and make dot (10); draw line (11) from dot (9) to dot (10). If you wish skirt longer behind than in front, make line (6) one-half inch longer than line (8), and draw line (11) on slight curve.


## Back Gore.

## 1st. Draw base line or (1).

2d. Square out at left-hand end of base line and draw line (2); make dot (3) at " back waist" arrow, same as in drawing back.
3d. Measure from dot (3) and make dot (4) at onefourth the whole waist measure, by half inches.

4th. Place wide end of square to line (2) and corner, one and a-half inches beyond dot (4), making dot (5) fourteen inches to the right of line (2); draw line (6) from dot (4) to dot (5), and continue as far to the right as full length of skirt, and if longer in back add onehalf inch to skirt length; draw line (7) from dot (3) so as to cross line (1) fourteen inches to the right; continue on to full length of skirt. If wanted longer in the back, continue line (7) one inch longer than skirt measure.
5th. Measure to right of dot (4) full length of skirt, and make dot (8); measure to the right of dot (3) full length of skirt, and make $\operatorname{dot}(9)$; draw line (10) from dot (8) to $\operatorname{dot}(9)$.

## To Put Skirt Together.

1st. Place line (8) of side gore to line (8) of front.
2d. Place line (6) of back gore to line (6) of side gore.

## To Cut Drapery.

Take the picture of any style garment you want to imitate, and measure the length of it, and divide the length of person you are cutting for, by it, and that will give you the proportion of the picture, or, in other words, the number of inches to every inch; as, for example, if the picture is 5 inches long and the person's measures are, length of front, 18, and length of skirt, 42 inches, that would make full length- 42 and 18-60, which, divided by 5 , gives a quotient of 12 times, showing that the dress must be cut 12 inches for every inch in the picture. This rule will work in all kinds of drapery by just measuring the size of each piece as you wish to cut it, and then enlarge as many times as the person is larger than the picture. The same rule can be used in cutting collars, cuffs, or, in fact, any piece of trimming on the dress. By this rule you can use parts of as many different styles as is wished, and make each part or piece just the same as in picture, thereby designing as many new styles as you choose. In measuring for loopings or plaitings, measure the size of each loop or plait and add the same to the full length of piece as it is in picture, which will make each piece the required length for looping up or laying in plaits, so that your goods are always the right length or width, which saves goods and the annoyance of not knowing if you have them too short or narrow. Very many dressmakers cut their drapery a great deal too large, and of course the goods are wasted.

Be careful, in measuring, to measure all points and draw lines to dot made by measures, and your goods will always come out the right shape and size, without your knowing exactly how you get it.

## TO TAKE MEASURES FOR SHIRT.

Neck, over-collar, length of shoulder, from neck to point; breast same as bust for dress, only you add four inches for looseness; width of back same as for dress, only not so close; chest same as dress, only larger; under arm same as dress, but not so high up; shoulder slope same as dress, but divide it one inch back of center on top of shouller, making back slope two inches shorter than front; length of back same as dress; length of front same as dress; hip, smooth measure and allow six inches for fullness; length of skirt from cord at waist down as long as wanted; sleeve measure the same as dress, only not so tight, and take top measure same as arm size, only not so tight.

## Order of Taking Measures for Shirt.

1-Neck.
2-Length of shoulder.
3-Breast.
4-Width of back.
5-Chest.
6-Under arm.

7-Shoulder slope.
8-Length of back.
9-Length of front.
10-Hips.
11-Length of skirt.

Sleeve.
1-Length. 2-Elbow. 3-Cuff, 4-Top.

## FOR DRAFTING SHIRT.

## Back.



1st. Draw base line or (1), and make dots at left hand corner of square and one-half of an inch to the right.

2d. Move square to right one-half inch, and make dot (2) at length of back; move square to right until back shoulder slope measure comes to dot (2), and make dot (3) at left-hand corner of square.

3d. Move square to right until under arm measure comes to dot (2) and make dot (4) at corner of square.

4th. Square by dot (2) and base line or (1), and draw waist line or (5); make dot (6) at one-half of hip measure by half inches; square by base line and dot (4), and draw line (7); make dot (8) at one-half of breast measure less two inches, by half inches; square by base line and dot (3), and draw line (9); square by base line and left-hand dot, and make dot (10) at "back neck" measure; draw line (11) by "back arm size" curve; place corner of square to dot (10) and length of sboulder measure to line (9), and make dot (12); draw line (13).

5th. Place square parallel with line (7) and width of back measure to base line, and make dot (14) at end of square and two inches above line (7); turn square over with ' front arm size" curve to dots (8), (14) and (12); draw line (15).

6 th. Square by line (5) and dot (6), and make dot (16) eight inches to right of line (5); turn square end for end, and place "hip spring" line parallel with line (5), and draw line (17) by commencing two inches to right of line (5), and continue as far as "shoulder point" line; turn square over and end for end, and place "shoulder point" line to dot (8), and bring curve to end of line (17); draw line (18); draw line (19) by " front arm size" curve, so as to join on to line (17) and come to length of skirt; line (20) from line (19) to length of skirt on line (1).

## For Front.



1st. Draft base line or (1).
2d. Square out at left hand end of base line or (1), and draw line (2); make dot (3) at " front neck" measure, and dot (4) at $\frac{1}{2}$ inch to right; dot (5) at "depth of front neck" measure.

3d. Square by dot (4) and base line or (1), and draw line (6); make dot (7) at " front neck" measure.

4th. Place "back neck" measure at dot (3), and make dot (8) at length of front measure on base line or (1); move square to the right, placing front shoulder slope measure to dot (8), and make dot (9 at left-hand corner of square.

5th. Move square to right until underarm measure comes to dot (8), and make dot (10) at corner of square.

6 th. Square by dot (8) and base line or (1), and draw line (11); make dot (12) at two-thirds of whole hip measure.

7th. Square by dot (10) and base line or (1), and draw line (13); make dot (14) at bust measure, less two inches.

8 th. Square by dot (9) and base line or (1), and draw line (15).

9 th. Place corner of square to dot (7), and length of shoulder measure to line (15), and make dot 16; draw line 17; place "front neck" arrow to dot (5) and curve to dot (7), and draw line 18.

10th. Place square on line (13) and chest measure to base line, and make dot (19) at end of square, two inches above line (13). Place front arm size curve to dots (19) and (14), so as to follow line (13) one inch; draw line (20); turn square over with front arm size curve to dots (19) and (16), so as to join on line (20) with same curve; draw line (21).

11th. Square by dot (12) and line (11), and make dot (22) 8 inches to right of line (11); place hip spring line parallel with line (11), and curve to dot (22); draw line (23) by commencing two inches to right of line (11), and continue to "shoulder point" line; then turn square over, and end for end, and same point to dot (14), and make curve join on line (23); draw line (24); draw line (25), with front arm-size curve to length of skirt; and (26) from (25) to line (1) at length of skirt.


## For Sleeve.

1st. Draft base line or (1); make dot (2) at left-hand corner of square; dot (3) at length from wrist to elbow; dot (4) at full length of sleeve; dot (5) by counting to the left of dot (4) three inches, which is inside length.

2d. Square by base line and dot (2), and draw line (6); make dot (7) at cuff measure by half inches.

3d. Square by base line and dot (3), and draw line (8); make dot (9) at elbow measure by half inches.

4th. Square by base line and dot (5); draw line (10), and make dot (11) at top measure by half inches.

5 th. Square by base line and dot (4), and draw line (12) out about four inches; then turn, square end for end and place "shoulder point" line to base line at dot (4), with curve side to line (12), and continue same around curve; draw line from dot (9) to dot (11) by placing "hip spring" line to line (12) and dots (11) and (9); draw straight line from dot (9) to dot (7); make cuff to suit taste.

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