

GROW RULES USED FOR DRAFTING AND ADAPTING, IN POLYPATTERN-M2M, **THE TAILORED SKIRT BLOCK** BY W. ALDRICH, BASED ON MATHEMATICAL FORMULAS DEFINING THE PATTERN OUTLINE VERTICES, IN RELATION TO BODY MEASUREMENTS

ALGORITHM FORMS RELATING TO THE PLACEMENT OF VERTICES (Page on the right), WHICH DEFINE THE PATTERN OUTLINES OF THE TAILORED SKIRT BLOCK (ORIGINATED BY WINIFRED ALDRICH, 1994: 56-57) ADAPTED FOR SCOLIOSIS, IN A 2D CARTESIAN COORDINATE SYSTEM (Table 8.5)			
FORMULA NAMES & VERTEX COORDINATES	ALGORITHM FORMULAS (GROW RULES)		
TOTAL HEM (L + R)	LEFT DRESS LENGTH TO KNEE	PLUS [+]	RIGHT DRESS LENGTH TO KNEE
AVERAGE CENTRE FRONT-BACK HEM	TOTAL HEM (L + R)	MULTIPLIED BY *[0.50]	
FRONT LEFT WAIST DART WIDTH	FRONT LEFT HIP WIDTH	MINUS [-]	FRONT LEFT WAIST WIDTH
FRONT RIGHT WAIST DART WIDTH	FRONT RIGHT HIP WIDTH	MINUS [-]	FRONT RIGHT WAIST WIDTH
HALF FRONT LEFT WAIST DART WIDTH	FRONT LEFT WAIST DART WIDTH	MULTIPLIED BY *[0.50]	
HALF FRONT RIGHT WAIST DART WIDTH	FRONT RIGHT WAIST DART WIDTH	MULTIPLIED BY *[0.50]	
DART MOVE FRONT LEFT	FRONT LEFT HIP WIDTH	MULTIPLIED BY *[0.66]	
DART MOVE FRONT RIGHT	FRONT RIGHT HIP WIDTH	MULTIPLIED BY *[0.66]	
FRONT LEFT WAIST DART POSITION TO SIDE	DART MOVE FRONT LEFT	PLUS [+]	HALF FRONT LEFT WAIST DART WIDTH
FRONT RIGHT WAIST DART POSITION TO SIDE	DART MOVE FRONT RIGHT	PLUS [+]	HALF FRONT RIGHT WAIST DART WIDTH
FRONT LEFT WAIST DART POSITION TO CENTRE	DART MOVE FRONT LEFT	MINUS [-]	HALF FRONT LEFT WAIST DART WIDTH
FRONT RIGHT WAIST DART POSITION TO CENTRE	DART MOVE FRONT RIGHT	MINUS [-]	HALF FRONT RIGHT WAIST DART WIDTH
1x LEFT FRONT	FRONT HIP DEPTH	MULTIPLIED BY *[- 0.50]	
1y LEFT FRONT			
2x LEFT FRONT	FRONT HIP DEPTH	MULTIPLIED BY *[- 0.50]	
2y LEFT FRONT	FRONT LEFT WAIST DART POSITION TO CENTRE	MULTIPLIED BY *[- 1]	
3x LEFT FRONT		EQUALS [=]	2x LEFT FRONT
3y LEFT FRONT	FRONT LEFT WAIST DART POSITION TO SIDE	MULTIPLIED BY *[- 1]	
4x LEFT FRONT	LEFT HIP DEPTH	MULTIPLIED BY *[- 0.50]	
4y LEFT FRONT	FRONT LEFT HIP WIDTH	MULTIPLIED BY *[- 1]	
5x LEFT FRONT	LEFT HIP DEPTH	MULTIPLIED BY *[0.50]	
5y LEFT FRONT	FRONT LEFT HIP WIDTH	MULTIPLIED BY *[- 1]	
6x LEFT FRONT	LEFT DRESS LENGTH TO KNEE	MULTIPLIED BY *[1]	

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6y LEFT FRONT		EQUALS [=]	5y LEFT FRONT
7x LEFT FRONT	AVERAGE CENTRE FRONT-BACK HEM	MULTIPLIED BY *[1]	
7y LEFT FRONT			
8x LEFT FRONT			
8y LEFT FRONT	DART MOVE FRONT LEFT	MULTIPLIED BY *[-1]	
1x RIGHT FRONT		EQUALS [=]	2x LEFT FRONT
1y RIGHT FRONT			
2x RIGHT FRONT	AVERAGE CENTRE FRONT-BACK HEM	MULTIPLIED BY *[1]	
2y RIGHT FRONT			
3x RIGHT FRONT	RIGHT DRESS LENGTH TO KNEE	MULTIPLIED BY *[1]	
3y RIGHT FRONT	FRONT RIGHT HIP WIDTH	MULTIPLIED BY *[1]	
4x RIGHT FRONT	RIGHT HIP DEPTH	MULTIPLIED BY *[0.50]	
4y RIGHT FRONT		EQUALS [=]	3y RIGHT FRONT
5x RIGHT FRONT	RIGHT HIP DEPTH	MULTIPLIED BY *[- 0.50]	
5y RIGHT FRONT		EQUALS [=]	3y RIGHT FRONT
6x RIGHT FRONT		EQUALS [=]	2x LEFT FRONT
6y RIGHT FRONT	FRONT RIGHT WAIST DART POSITION TO SIDE	MULTIPLIED BY *[1]	
7x RIGHT FRONT		EQUALS [=]	2x LEFT FRONT
7y RIGHT FRONT	FRONT RIGHT WAIST DART POSITION TO CENTRE	MULTIPLIED BY *[1]	
8x RIGHT FRONT			
8y RIGHT FRONT	DART MOVE FRONT RIGHT	MULTIPLIED BY *[1]	
BACK LEFT WAIST DART WIDTH	BACK LEFT HIP WIDTH	MINUS [-]	BACK LEFT WAIST WIDTH
BACK RIGHT WAIST DART WIDTH	BACK RIGHT HIP WIDTH	MINUS [-]	BACK RIGHT WAIST WIDTH
QUARTER BACK LEFT WAIST DART WIDTH	BACK LEFT WAIST DART WIDTH	MULTIPLIED BY *[0.25]	
QUARTER BACK RIGHT WAIST DART WIDTH	BACK RIGHT WAIST DART WIDTH	MULTIPLIED BY *[0.25]	
DART-A MOVE BACK LEFT	BACK LEFT HIP WIDTH	MULTIPLIED BY *[0.33]	
DART-A MOVE BACK RIGHT	BACK RIGHT HIP WIDTH	MULTIPLIED BY *[0.33]	
DART-B MOVE BACK LEFT	BACK LEFT HIP WIDTH	MULTIPLIED BY *[0.66]	

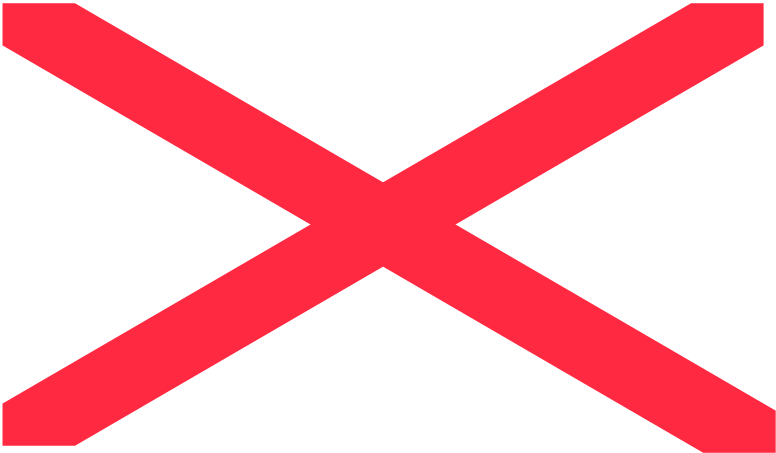
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DART-B MOVE BACK RIGHT	BACK RIGHT HIP WIDTH	MULTIPLIED BY *[0.66]	
BACK LEFT WAIST DART-A POSITION TO SIDE	DART-A MOVE BACK LEFT	PLUS [+]	QUARTER BACK LEFT WAIST DART WIDTH
BACK RIGHT WAIST DART-A POSITION TO SIDE	DART-A MOVE BACK RIGHT	PLUS [+]	QUARTER BACK RIGHT WAIST DART WIDTH
BACK LEFT WAIST DART-A POSITION TO CENTRE	DART-A MOVE BACK LEFT	MINUS [-]	QUARTER BACK LEFT WAIST DART WIDTH
BACK RIGHT WAIST DART--A POSITION TO CENTRE	DART-A MOVE BACK RIGHT	MINUS [-]	QUARTER BACK RIGHT WAIST DART WIDTH
BACK LEFT WAIST DART-B POSITION TO SIDE	DART-B MOVE BACK LEFT	PLUS [+]	QUARTER BACK LEFT WAIST DART WIDTH
BACK RIGHT WAIST DART-B POSITION TO SIDE	DART-B MOVE BACK RIGHT	PLUS [+]	QUARTER BACK RIGHT WAIST DART WIDTH
BACK LEFT WAIST DART-B POSITION TO CENTRE	DART-B MOVE BACK LEFT	MINUS [-]	QUARTER BACK LEFT WAIST DART WIDTH
BACK RIGHT WAIST DART-B POSITION TO CENTRE	DART-B MOVE BACK RIGHT	MINUS [-]	QUARTER BACK RIGHT WAIST DART WIDTH
1x LEFT BACK	BACK HIP DEPTH	MULTIPLIED BY *[- 0.50]	
1y LEFT BACK			
2x LEFT BACK	BACK HIP DEPTH	MULTIPLIED BY *[0.50]	
2y LEFT BACK			
3x LEFT BACK	AVERAGE CENTRE FRONT-BACK HEM	MULTIPLIED BY *[1]	
3y LEFT BACK			
4x LEFT BACK	LEFT DRESS LENGTH TO KNEE	MULTIPLIED BY *[1]	
4y LEFT BACK	BACK LEFT HIP WIDTH	MULTIPLIED BY *[1]	
5x LEFT BACK	LEFT HIP DEPTH	MULTIPLIED BY *[0.50]	
5y LEFT BACK	BACK LEFT HIP WIDTH	MULTIPLIED BY *[1]	
6x LEFT BACK	LEFT HIP DEPTH	MULTIPLIED BY *[- 0.50]	
6y LEFT BACK	BACK LEFT HIP WIDTH	MULTIPLIED BY *[1]	
7x LEFT BACK		EQUALS [=]	6x LEFT BACK
7y LEFT BACK	BACK LEFT WAIST DART-B POSITION TO SIDE	MULTIPLIED BY *[1]	
8x LEFT BACK		EQUALS [=]	6x LEFT BACK
8y LEFT BACK	BACK LEFT WAIST DART-B POSITION TO CENTRE	MULTIPLIED BY *[1]	
9x LEFT BACK		EQUALS [=]	1x LEFT BACK
9y LEFT BACK	BACK LEFT WAIST DART-A POSITION TO SIDE	MULTIPLIED BY *[1]	
10x LEFT BACK		EQUALS [=]	1x LEFT BACK

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10y LEFT BACK	BACK LEFT WAIST DART-A POSITION TO CENTRE	MULTIPLIED BY *[1]	
11x LEFT BACK	BACK HIP DEPTH	MULTIPLIED BY *[0.10]	
11y LEFT BACK	DART-B MOVE BACK LEFT	MULTIPLIED BY *[1]	
12x LEFT BACK	BACK HIP DEPTH	MULTIPLIED BY *[0.18]	
12y LEFT BACK	DART-A MOVE BACK LEFT	MULTIPLIED BY *[1]	
1x RIGHT BACK	BACK HIP DEPTH	MULTIPLIED BY *[- 0.50]	
1y RIGHT BACK			
2x RIGHT BACK		EQUALS [=]	1x RIGHT BACK
2y RIGHT BACK	BACK RIGHT WAIST DART-A POSITION TO CENTRE	MULTIPLIED BY *[-1]	
3x RIGHT BACK		EQUALS [=]	1x RIGHT BACK
3y RIGHT BACK	BACK RIGHT WAIST DART-A POSITION TO SIDE	MULTIPLIED BY *[-1]	
4x RIGHT BACK	RIGHT HIP DEPTH	MULTIPLIED BY *[- 0.50]	
4y RIGHT BACK	BACK RIGHT WAIST DART-B POSITION TO CENTRE	MULTIPLIED BY *[-1]	
5x RIGHT BACK		EQUALS [=]	4x RIGHT BACK
5y RIGHT BACK	BACK RIGHT WAIST DART-B POSITION TO SIDE	MULTIPLIED BY *[-1]	
6x RIGHT BACK	RIGHT HIP DEPTH	MULTIPLIED BY *[- 0.50]	
6y RIGHT BACK	BACK RIGHT HIP WIDTH	MULTIPLIED BY *[-1]	
7x RIGHT BACK	RIGHT HIP DEPTH	MULTIPLIED BY *[0.50]	
7y RIGHT BACK	BACK RIGHT HIP WIDTH	MULTIPLIED BY *[-1]	
8x RIGHT BACK	RIGHT DRESS LENGTH TO KNEE	MULTIPLIED BY *[1]	
8y RIGHT BACK		EQUALS [=]	6y RIGHT BACK
9x RIGHT BACK	AVERAGE CENTRE FRONT-BACK HEM	MULTIPLIED BY *[1]	
9y RIGHT BACK			
10x RIGHT BACK	BACK HIP DEPTH	MULTIPLIED BY *[0.50]	
10y RIGHT BACK			
11x RIGHT BACK	BACK HIP DEPTH	MULTIPLIED BY *[0.10]	
11y RIGHT BACK	DART-B MOVE BACK RIGHT	MULTIPLIED BY *[-1]	
12x RIGHT BACK	BACK HIP DEPTH	MULTIPLIED BY *[0.18]	
12y RIGHT BACK	DART-A MOVE BACK RIGHT	MULTIPLIED BY *[-1]	

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