1. Remove parenthesis and simplify:

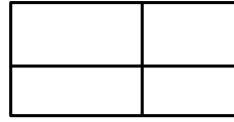$(y + 3) \cdot (y + 2) =$ _____
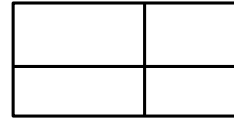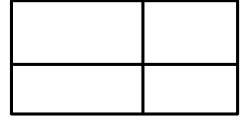
$(y - 3) \cdot (y + 2) =$ _____

$(y + 3) \cdot (y - 2) =$ _____

$(y - 3) \cdot (y - 2) =$ _____
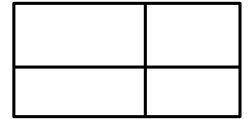
$(2y + 3) \cdot (3y - 1) =$ _____
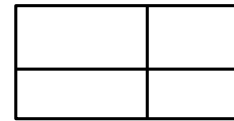
2. Find lines of symmetry in the 2D shapes below:
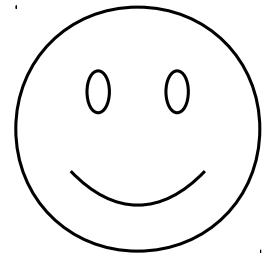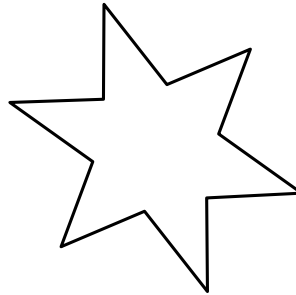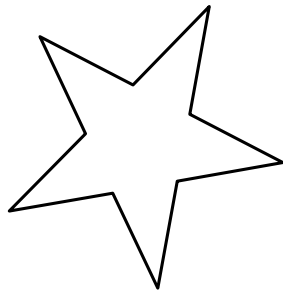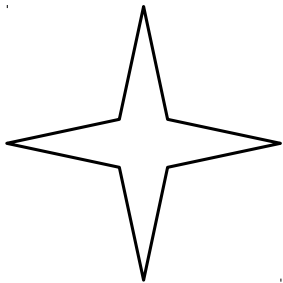
3. Solve equations in your notebooks:

a) $|2x + 3| = 1$ b) $\dfrac{1}{1 - \dfrac{5}{x}} = 2$

Answers: a) $\{-2, -1\}$ b) $x = 10$

4. Color or shade congruent triangles same way:

5. Use a compass to find points C_1 and C_2 located 5 cm from point A and 6 cm from point B.

$\overset{\bullet}{A}$

Can you find any other point that fits both conditions?

$\overset{\bullet}{B}$

6. Use table to help to plot graphs for $y = |x + 2|$ and $y = |x - 1|$. Construct continuous lines for each graph. Find and plot **symmetry lines** for these graphs.

x	-7	-5	-3	-1	0	1	3	5	7	9
y										

$y = |x - 1|$

$y = |x + 2|$

x	-7	-5	-3	-1	0	1	3	5	7	9
y										

Find rotational axes and planes of symmetry in the 3D shapes below:

2 cm   *2 cm*

5 cm   *2 cm*

5 cm   *5 cm*