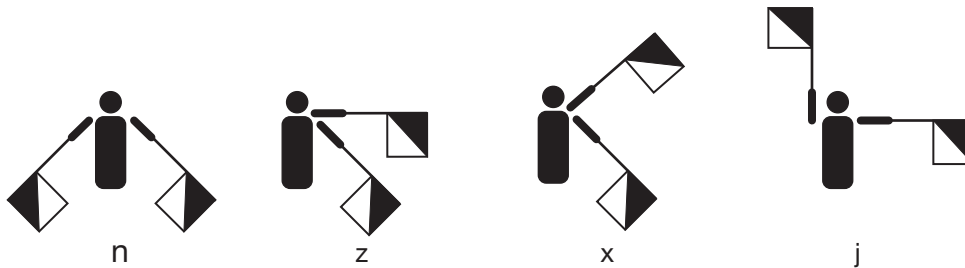


Mid-Chapter Review

1. Which letter signal shows each transformation from one arm to the other?

a) a 45° rotation z c) a 90° rotation x

b) a reflection across a vertical line n d) a reflection across a diagonal line j

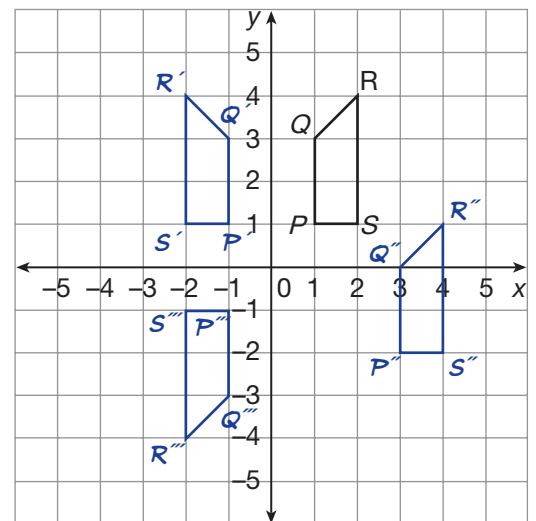


2. Draw each image. Start with polygon $PQRS$ each time.

a) $P'Q'R'S'$ is a reflection across the y -axis.

b) $P''Q''R''S''$ is a translation $(R2, D3)$.

c) $P'''Q'''R'''S'''$ is a rotation 180° cw around the origin.



3. A triangle has vertices $A(2, -2)$, $B(1, 3)$, and $C(4, 1)$. Write the coordinates of the vertices after each transformation below.

a) $\triangle ABC$ is translated $(L4, D3)$.
 $A'(-2, -5)$, $B'(-3, 0)$, $C'(0, -2)$

b) $\triangle ABC$ is reflected across the x -axis.
 $A''(2, 2)$, $B''(1, -3)$, $C''(4, -1)$

4. $\triangle LMN$ was rotated counterclockwise around centre C to make $\triangle L'M'N'$. What was the rotation angle? 60°

