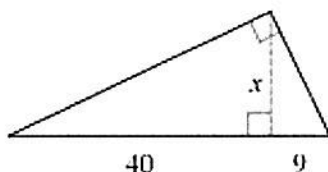


1. Solve for x:



$$\frac{x}{9} = \frac{40}{x}$$

$$x^2 = 360$$

$$x = \sqrt{360}$$

$$x = \sqrt{36 \cdot 10}$$

$$x = 6\sqrt{10}$$

2. Perform the given transformation for the point $(-3, 4)$.

- Translation $(3,3)$ ~~$(0,7)$~~
- Rotation of 180 degrees counterclockwise $(3, -4)$
- Reflection in the x-axis $(-3, -4)$
- Reflection over the line $y = x$ $(4, -3)$
- Dilation of $k=-2$ $(-6, 8)$

3. Define:

- Line symmetry – a line can be drawn that divides a figure into 2 mirror image halves
- Point symmetry – rotated 180° and looks the same

Does the letter E have both of the above symmetries?

Line symmetry ✓

Point symmetry ✗