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Graphing Complex Transformations - Guided Lesson Explanation**Explanation#1**

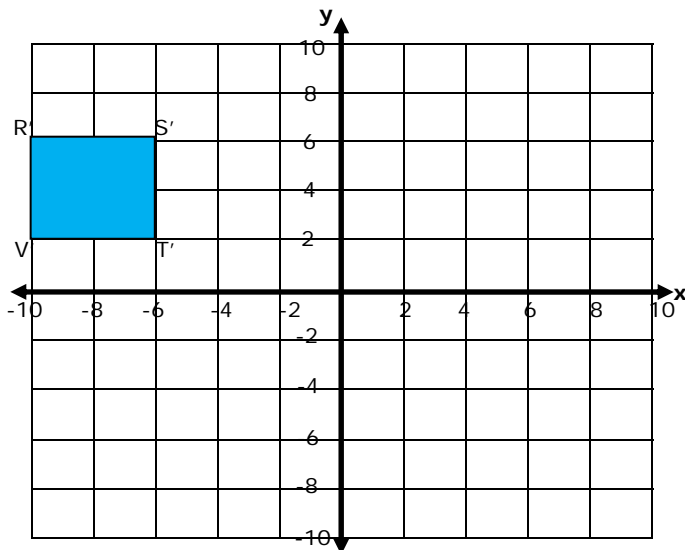
Find the value of all coordinates:

R (-6, -4)

S (-2, -4),

V (-6, -8)

T (-2, -8)

Use the transformation rule $(x,y) \rightarrow (x-4, y+10)$ to find the image of each of its three vertices.R (-6, -4) \longrightarrow R' (-10, 6)S (-2, -4) \longrightarrow S' (-6, 6)V (-6, -8) \longrightarrow V' (-10, 2)T (-2, -8) \longrightarrow T' (-6, 2)

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Explanation#2

Find the value of all coordinates:

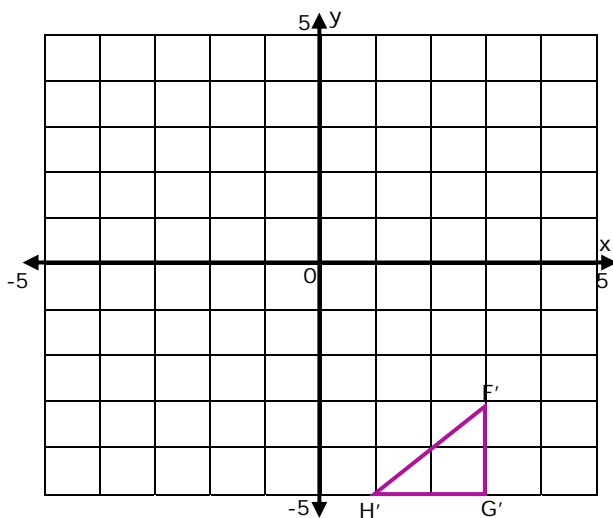
F (5, -2), G (5, -4), H (3, -4),

Use the transformation rule $(x, y) \rightarrow (x - 2, y - 1)$ to find the image of each of its three vertices.

F (5, -2) \longrightarrow F' (3, -3)

G (5, -4) \longrightarrow G' (3, -5)

H (3, -4) \longrightarrow H' (1, -5)



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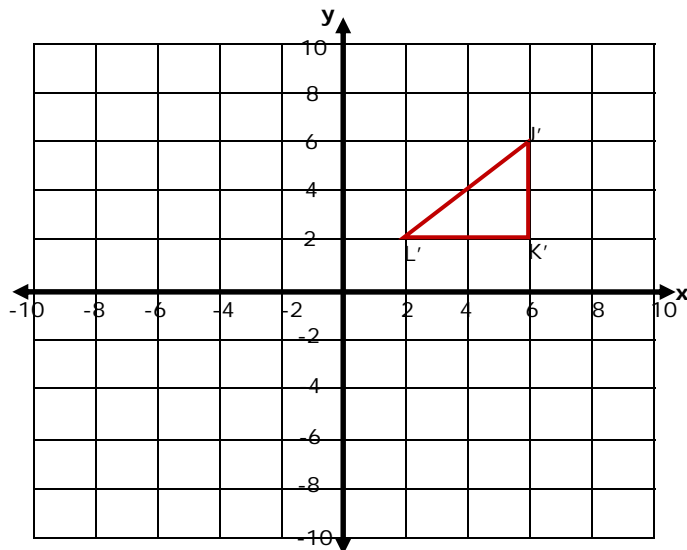
Explanation#3

Use the transformation rule $(x,y) \rightarrow (x-2,y-2)$ to find the image of each of its three vertices.

$$J (8, 8) \longrightarrow J' (6, 6)$$

$$K (8, 4) \longrightarrow S' (6, 2)$$

$$L (4, 4) \longrightarrow V' (2, 2)$$



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Rotation 270° counterclockwise around the origin.

Second, rotate JKL 270° counterclockwise about the origin. Use the transformation $(x, y) \rightarrow (y, -x)$ to find the image of each of its three vertices.

$$J(6, 6) \longrightarrow J'(6, -6)$$

$$K(6, 2) \longrightarrow K'(6, -2)$$

$$L(2, 2) \longrightarrow L'(2, -2)$$

