

slide



move an item in any direction
without rotating it

Translations Worksheets

Name:

Date:

Period:

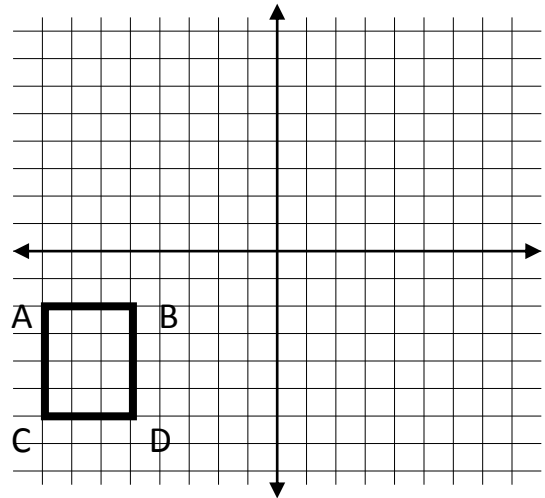
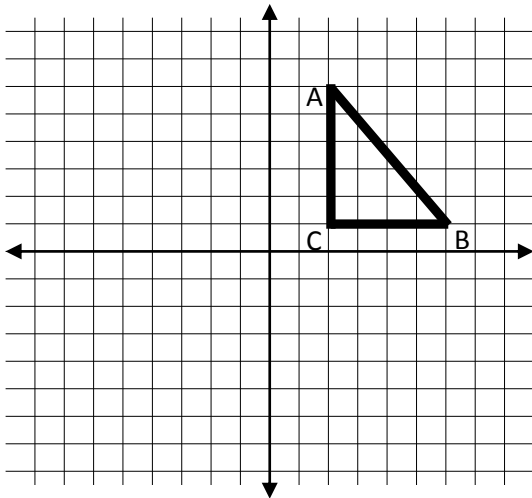
Sketch the image of the pre-image after the given translation. Label each vertex. Label image vertex as A' , B' , C' etc.

1. Slide 8 left and 5 down.

2. $A(-8, -2)$; $B(-5, -2)$; $C(-8, -6)$;

$D(-5, -6)$

$$(x, y) \longrightarrow (x + 8, y + 10)$$



3. Graph and label the polygon determined by the coordinates below, then graph and label the image created by the transformation:

a)

$P(4, 8)$ $Q(2, 6)$

$R(2, 3)$ $S(4, 5)$

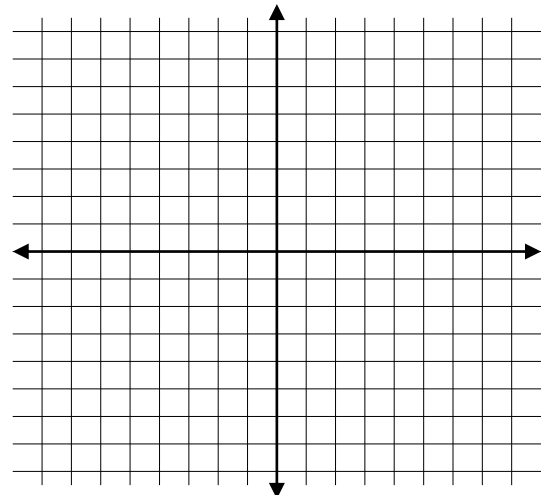
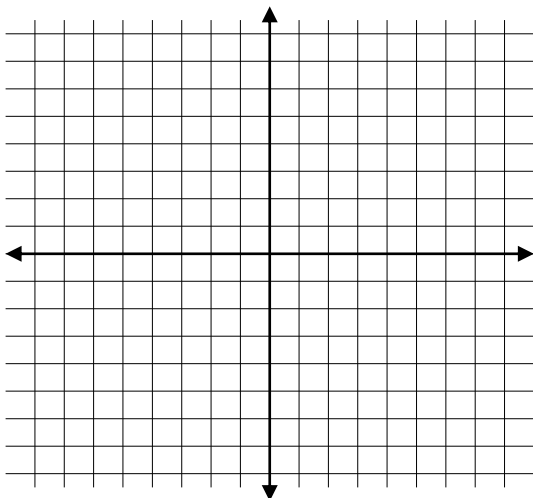
$$(x, y) \rightarrow (x + 4, y - 5)$$

b)

$A(0, 0)$ $B(-6, 0)$

$C(-6, 3)$

$$(x, y) \rightarrow (x + 6, y + 3)$$



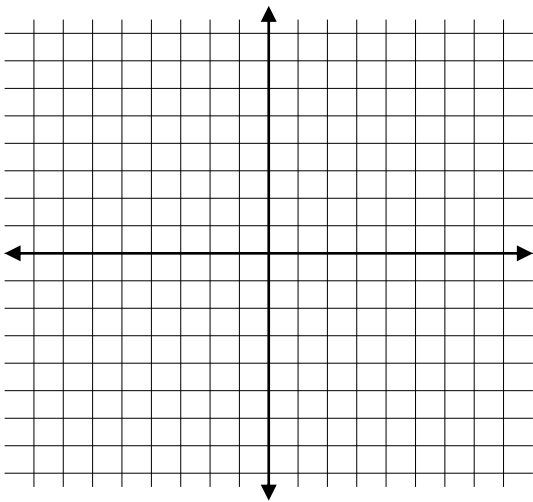
4. Graph and label the polygon determined by the coordinates below, then graph and label the image created by the transformation:

a)

P (5 , 3) Q (7 , 4)

R (7 , 1)

$$(x, y) \rightarrow (x, y - 5)$$

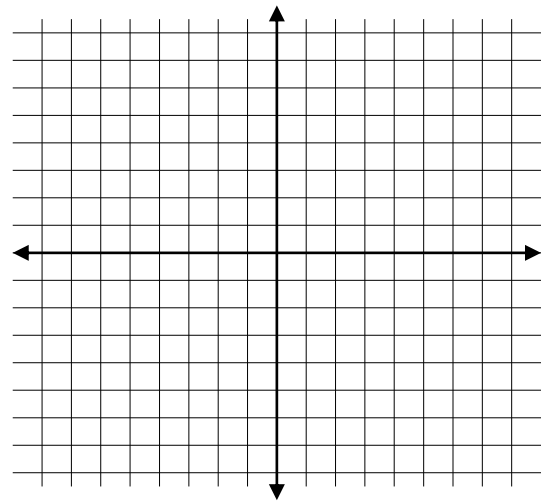


b)

A (-1, 1) B (1, 1)

C (1, -1) D (-1, -1)

$$(x, y) \rightarrow (x - 5, y)$$



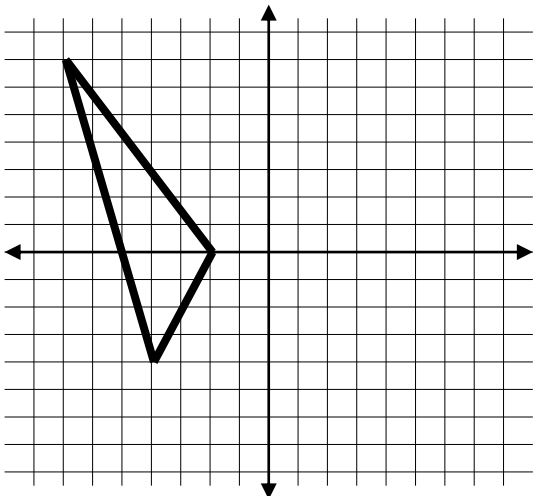
5. Describe the translation from the pre-image to the image.

a) Using words (left, right, up, down, etc.).

b) Using coordinate notation:

$$(x, y) \rightarrow (x \quad , y \quad)$$

Pre-image



Image

