

1. Describe what this translation represents in words: $(x, y) \rightarrow (x - 2, y + 3)$

translate
left 2 units
up 3 units

4. Find the coordinates of $\triangle EFG$ after the following translation:

$$E(1, 2) \quad F(5, 3) \quad G(2, 4) \quad (x, y) \rightarrow (x + 12, y - 27)$$

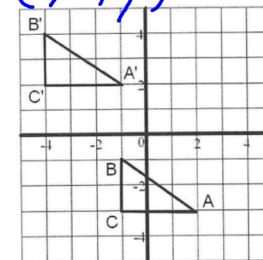
5. Given the coordinates of P and P' below to write a rule for the translation.

$$P(-4, 9) \quad P'(2, 5)$$

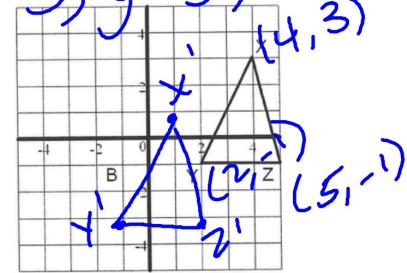
$$(x, y) \rightarrow (x + 6, y - 4) \quad E'(13, -25) \quad F'(11, -24) \quad G'(14, -23)$$

2. Write a rule for the translation shown below.

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

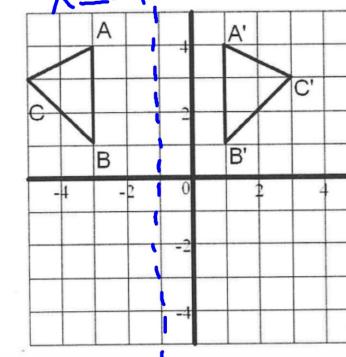


3. Draw and label the image of $\triangle XYZ$ after the following translation: $(x, y) \rightarrow (x - 3, y - 2)$



6. Draw the line of reflection and write its equation for the reflections shown below.

a) $x = -1$



b) $y = 0$

