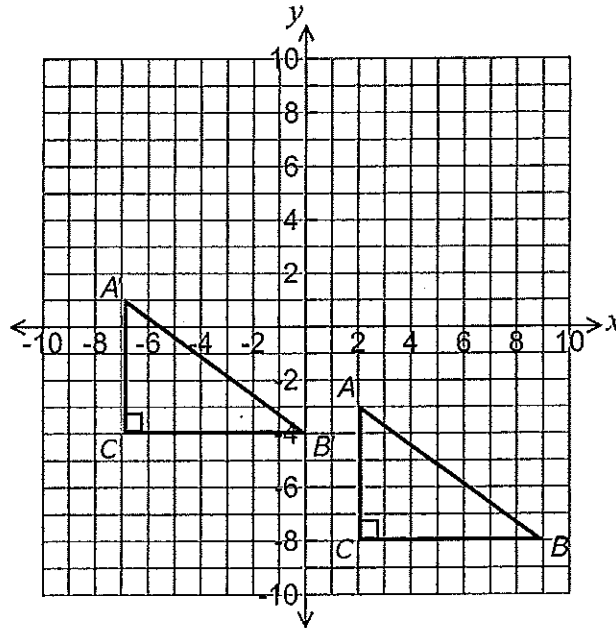


Translations Connections

Triangle $A'B'C'$ is a translation of $\triangle ABC$.



1. The translation of $\triangle ABC$ is _____ units to the _____ and _____ units _____.
(left or right) (up or down)

2. I can find the x-coordinates of $\triangle A'B'C'$ by _____ units to/from each x-coordinate of $\triangle ABC$.
(adding or subtracting) (how many units)

I can find the y-coordinates of $\triangle A'B'C'$ by _____ units to/from each y-coordinate of $\triangle ABC$.
(adding or subtracting) (how many units)

3. Complete the following statements:

$$A(2, -3) \rightarrow A'(2 \underline{\hspace{1cm}}, -3 \underline{\hspace{1cm}}) \rightarrow A'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$$

$$\rightarrow B(9, -8) \rightarrow B'(9 \underline{-9}, -8 \underline{+4}) \rightarrow B'(\underline{0}, \underline{-4})$$

$$C(2, -8) \rightarrow C'(2 \underline{\hspace{1cm}}, -8 \underline{\hspace{1cm}}) \rightarrow C'(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$$

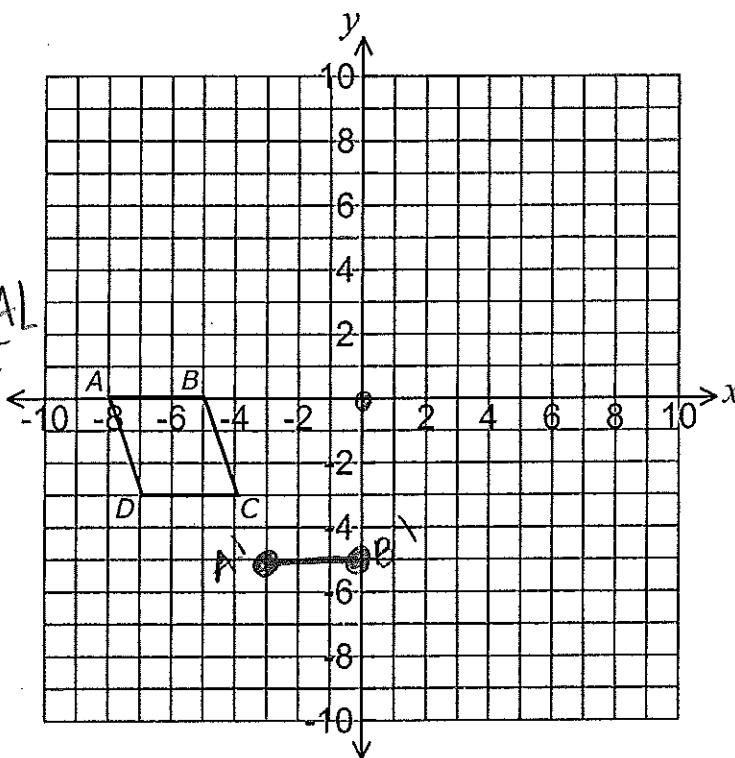
4. What one rule could describe the translation for all points on $\triangle ABC$?

$$(x, y) \rightarrow (x \underline{\hspace{1cm}}, y \underline{\hspace{1cm}})$$

Parallelogram on the Move!*

Parallelogram $ABCD$ was translated to form Parallelogram $A'B'C'D'$, Parallelogram $A''B''C''D''$, and Parallelogram $A'''B'''C'''D'''$.

*Always start with the ORIGINAL



- Use the coordinate plane above and the provided information to complete the table below.
- Use a different colored pencil to sketch and shade each parallelogram on the coordinate plane above.



Parallelogram $ABCD$ (x, y)	Parallelogram $A'B'C'D'$	Parallelogram $A''B''C''D''$	Parallelogram $A'''B'''C'''D'''$
$A(-8, 0)$	$A'(-3, -5)$		
$B(-5, 0)$	$B'(0, -5)$		
$C(-4, -3)$	$C'(\quad, \quad)$	$C''(5, 5)$	
$D(-7, -3)$	$D'(\quad, \quad)$	$D''(2, 5)$	$D'''(2, 0)$
Record the process used to translate each figure from Parallelogram $ABCD$.	$x+5, y-5$ (right 5) (down 5)	$x \quad, y \quad$	$x \quad, y \quad$