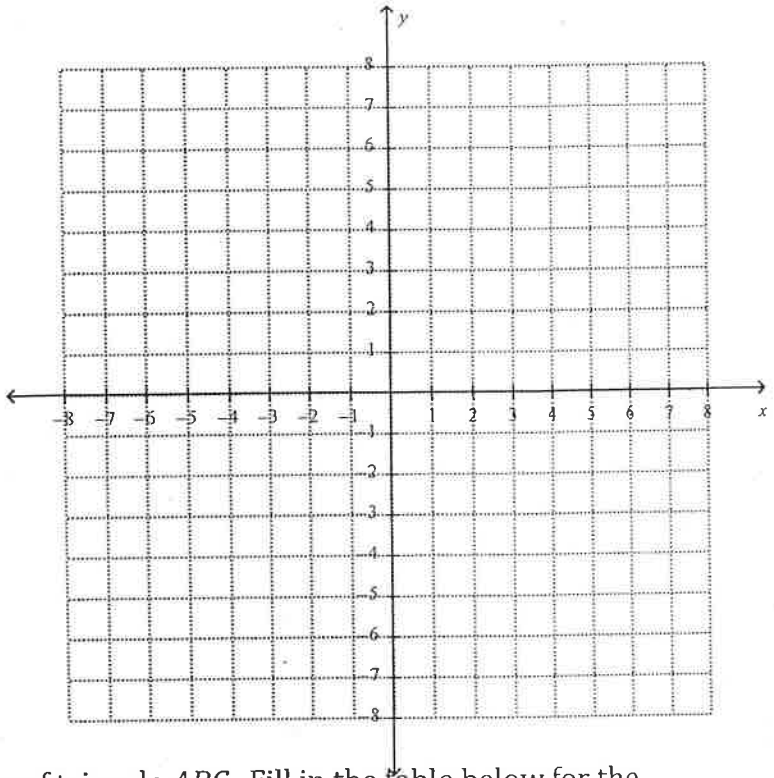
Name _____ Block _____

Digits- Topic 9.1-9.3 Quiz Review

1. a) The table below shows the coordinates of parallelogram ABCD. Fill in the table for the coordinates of rectangle A'B'C'D' following a translation of 1 unit to the left and 2 units down.

Parallelogram *ABCD*		Parallelogram *A'B'C'D'*	
A	(-3, 2)	*A'*	
B	(4, 2)	*B'*	
C	(6, 4)	*C'*	
D	(-1, 4)	*D'*	

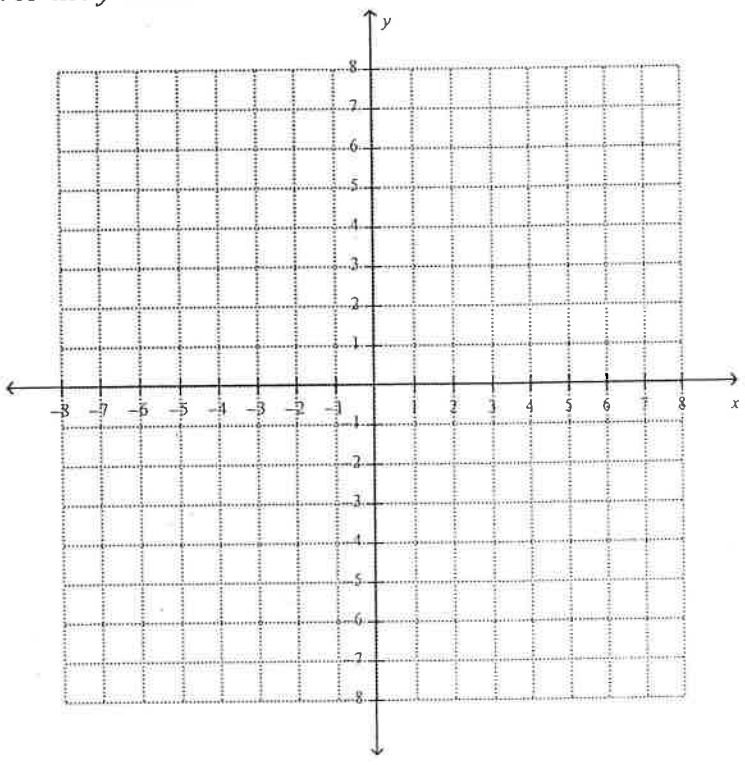


b) Draw and label parallelogram *ABCD* and image *A'B'C'D'* after the translation on the graph to the right.

c) State the general rule:
$(x, y) \rightarrow$ (,)

2. a) The table below shows the coordinates of triangle *ABC*. Fill in the table below for the coordinates of *A'*, *B'*, and *C'* after a reflection over the *y*-axis.

Triangle *ABC*		Triangle *A'B'C'*	
A	(-2, 4)	*A'*	
B	(2, 0)	*B'*	
C	(-1, -1)	*C'*	

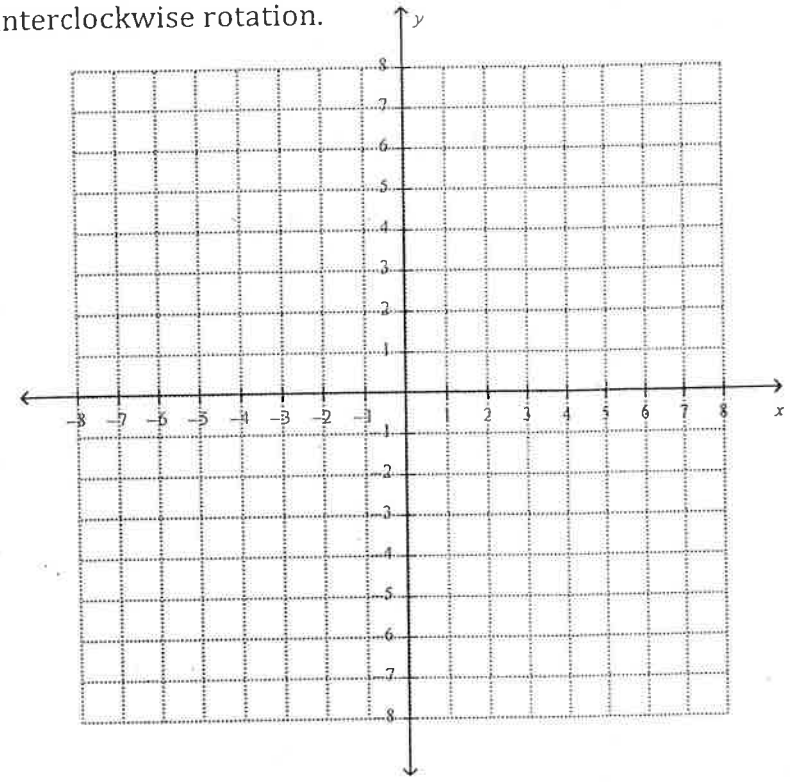


b) Draw triangle *ABC* and image *A'B'C'* after the reflection.

c) State the general rule:
$(x, y) \rightarrow$ (,)

3. a) The table below shows the coordinates of triangle *ABC*. Fill in the table below for the coordinates of *R'*, *S'*, and *T'* after a 90° counterclockwise rotation.

Triangle *RST*		Triangle *R'S'T'*	
R	(-4, 0)	*R'*	
S	(-2, 3)	*S'*	
T	(0, 0)	*T'*	

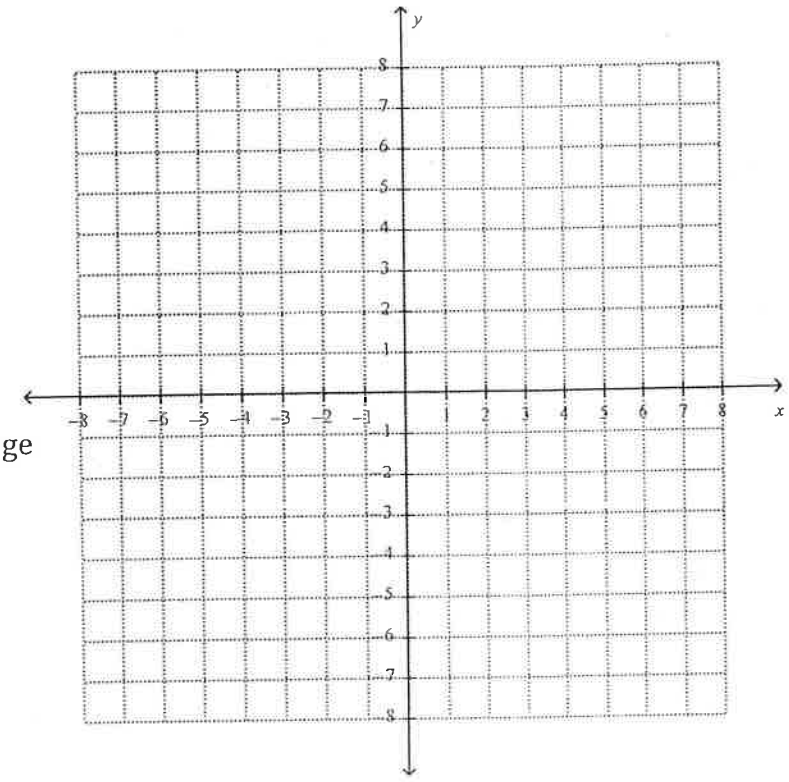


b) Draw triangle *RST* and image *R'S'T'* after the reflection.

c) State the general rule:
$(x, y) \rightarrow (\quad , \quad)$

4. a) The table below shows the coordinates of parallelogram ABCD. Fill in the table for the coordinates of rectangle A'B'C'D' following a translation of 1 unit to the right and 3 units up.

Parallelogram *ABCD*		Parallelogram *A'B'C'D'*	
A	(-3, 0)	*A'*	
B	(-2, 3)	*B'*	
C	(3, 3)	*C'*	
D	(2, 0)	*D'*	

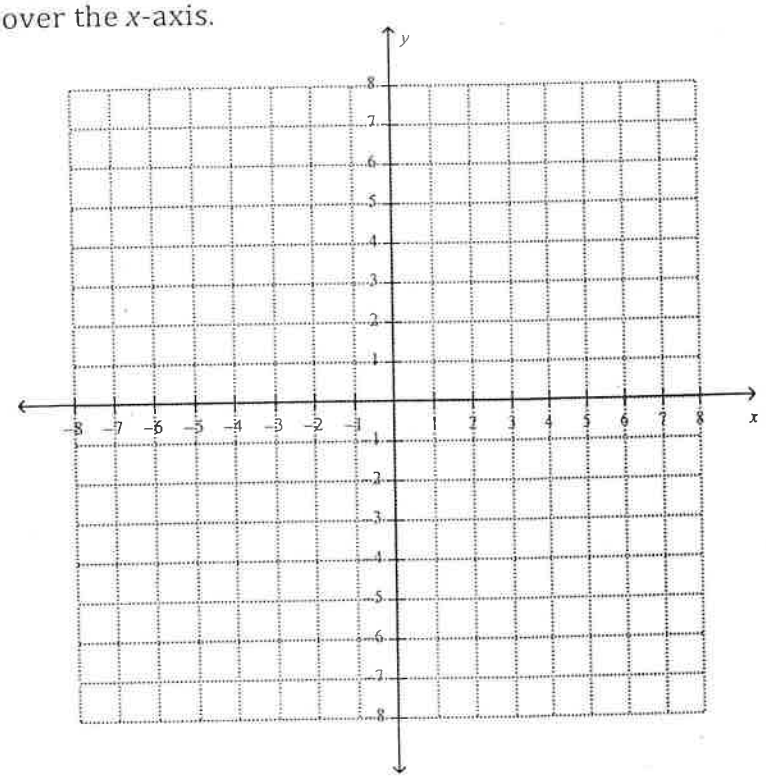


b) Draw and label trapezoid *ABCD* and image *A'B'C'D'* after the translation on the graph to the right.

c) State the general rule:
$(x, y) \rightarrow (\quad , \quad)$

5. a) The table below shows the coordinates of pentagon *ABCDE*. Fill in the table below for the coordinates of *A'*, *B'*, *C*, *D'*, *E'* after a reflection over the *x*-axis.

Pentagon *ABCDE*		Pentagon *A'B'C'D'E'*	
A	(-3,-5)	*A'*	
B	(3, -5)	*B'*	
C	(3, 1)	*C'*	
D	(0, 4)	*D'*	
E	(-3, 1)	*E'*	

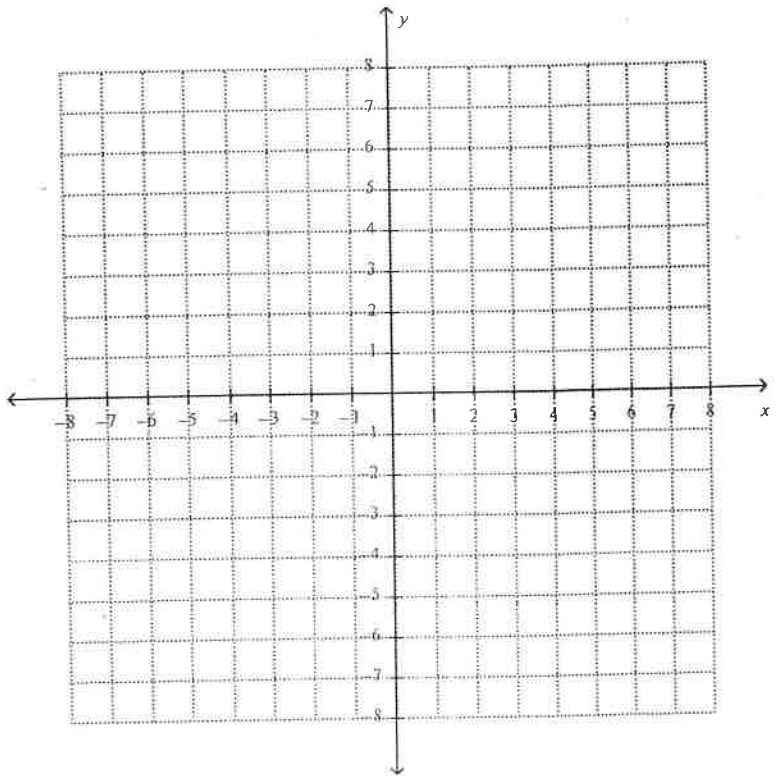


b) Draw *ABCDE* and image *A'B'C'D'E'* after the reflection.

c) State the general rule:
$(x, y) \rightarrow$ (,)

6. a) The table below shows the coordinates of triangle *ABC*. Fill in the table below for the coordinates of *A'*, *B'*, and *C'* after a 180° counterclockwise rotation.

Triangle *ABC*		Triangle *A'B'C'*	
A	(0, 0)	*A'*	
B	(2, 4)	*B'*	
C	(3, 0)	*C'*	



b) Draw triangle *ABC* and image *A'B'C'* after the reflection.

c) State the general rule:
$(x, y) \rightarrow$ (,)

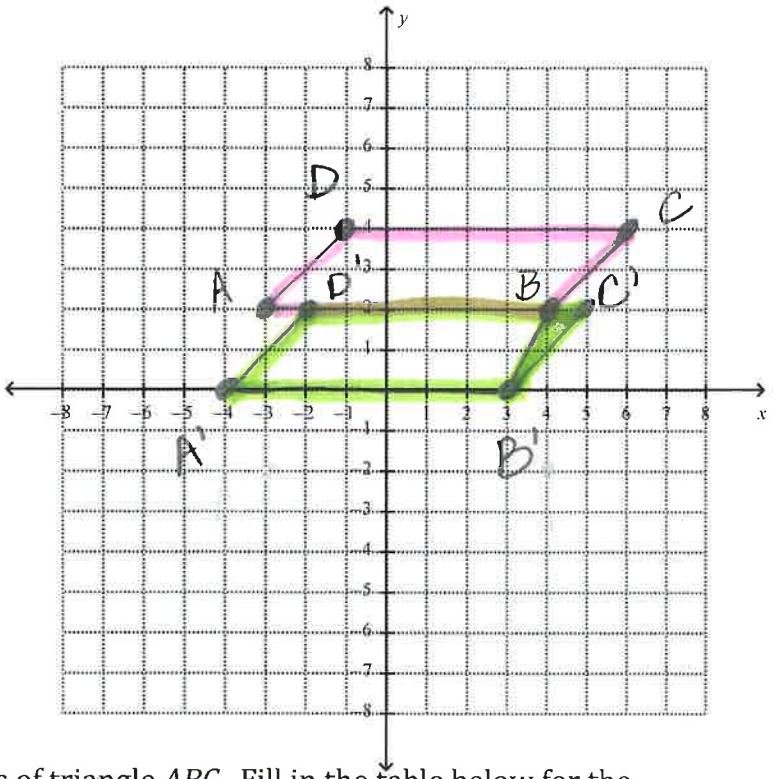
Name Key Block _____

Digits- Topic 9.1-9.3 Quiz Review

1. a) The table below shows the coordinates of parallelogram ABCD. Fill in the table for the coordinates of rectangle A'B'C'D' following a translation of 1 unit to the left and 2 units down.

Parallelogram

~~Rectangle~~ *ABCD*		Rectangle *A'B'C'D'*	
A	(-3, 2)	*A'*	(-4, 0)
B	(4, ~~+2~~)	*B'*	(3, 0)
C	(6, 4)	*C'*	(5, 2)
D	(-1, 4)	*D'*	(-2, 2)



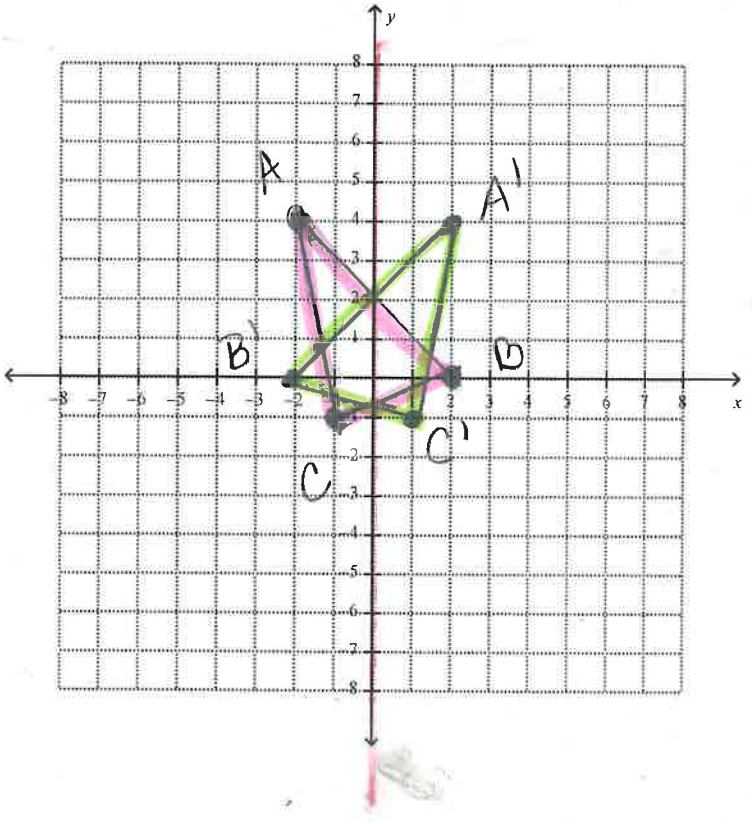
b) Draw and label parallelogram *ABCD* and image *A'B'C'D'* after the translation on the graph to the right.

c) State the general rule:

$(x, y) \rightarrow (\ x-1\ ,\ y-2\ )$

2. a) The table below shows the coordinates of triangle *ABC*. Fill in the table below for the coordinates of *A'*, *B'*, and *C'* after a reflection over the *y*-axis.

Triangle *ABC*		Triangle *A'B'C'*	
A	(-2, 4)	*A'*	(2, 4)
B	(2, 0)	*B'*	(-2, 0)
C	(-1, -1)	*C'*	(1, -1)



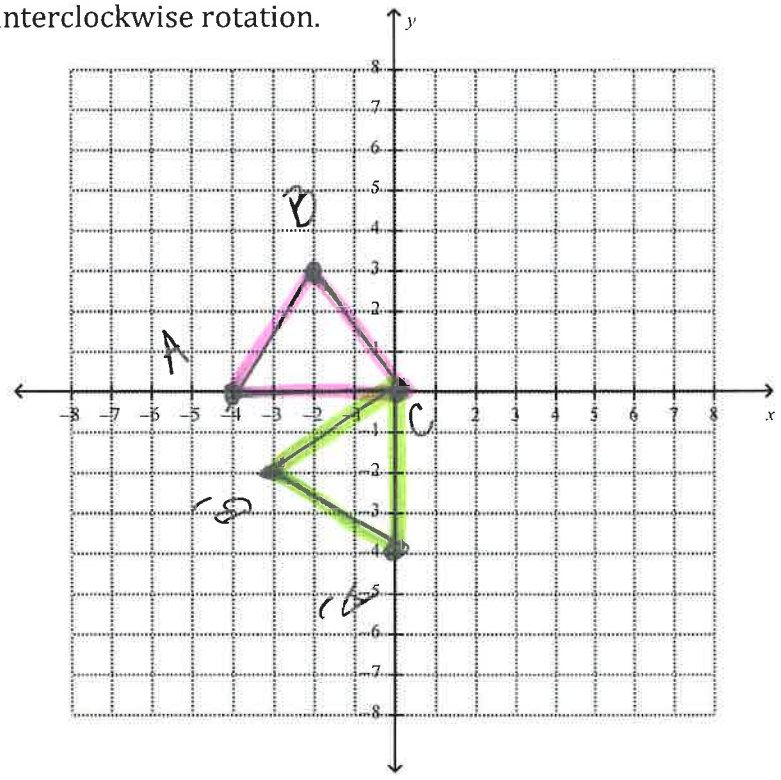
b) Draw triangle *ABC* and image *A'B'C'* after the reflection.

c) State the general rule:

$(x, y) \rightarrow (\ -1x\ ,\ y\ )$

3. a) The table below shows the coordinates of triangle *ABC*. Fill in the table below for the coordinates of *A'*, *B'*, and *C'* after a 90° counterclockwise rotation.

Triangle *RST*		Triangle *R'S'T'*	
A	(-4, 0)	*A'*	(0, -4)
B	(-2, 3)	*B'*	(-3, -2)
C	(0, 0)	*C'*	(0, 0)



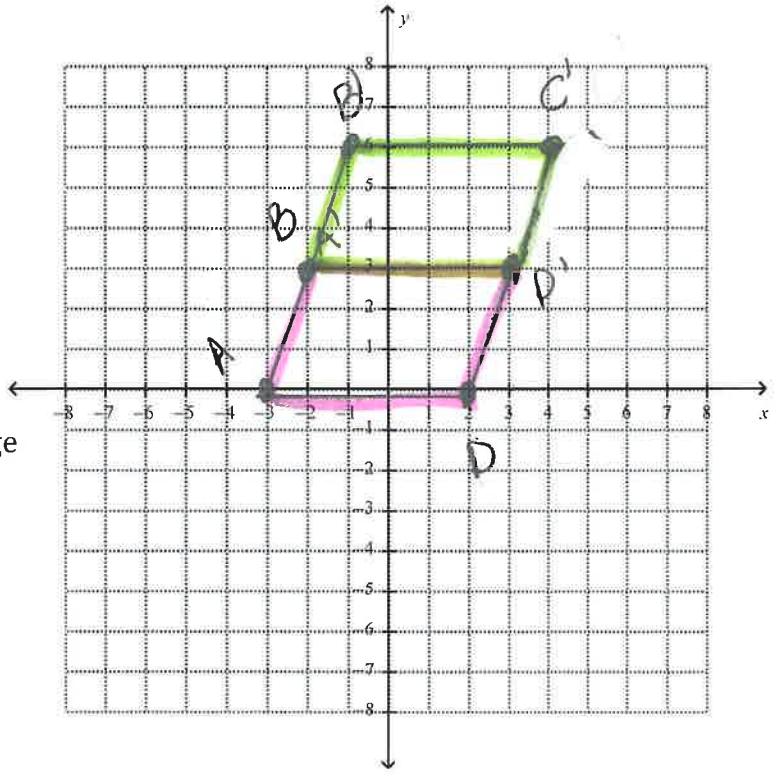
b) Draw triangle *ABC* and image *A'B'C'* after the reflection.

c) State the general rule:

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

4. a) The table below shows the coordinates of ~~trapezoid~~ parallelogram *ABCD*. Fill in the table for the coordinates of rectangle A'B'C'D' following a translation of 1 unit to the right and 3 units up.

~~Rectangle~~ Parallelogram *ABCD*		Rectangle *A'B'C'D'*	
A	(-3, 0)	*A'*	(-2, 3)
B	(-2, 3)	*B'*	(-1, 6)
C	(3, 3)	*C'*	(4, 6)
D	(2, 0)	*D'*	(3, 3)



b) Draw and label trapezoid *ABCD* and image *A'B'C'D'* after the translation on the graph to the right.

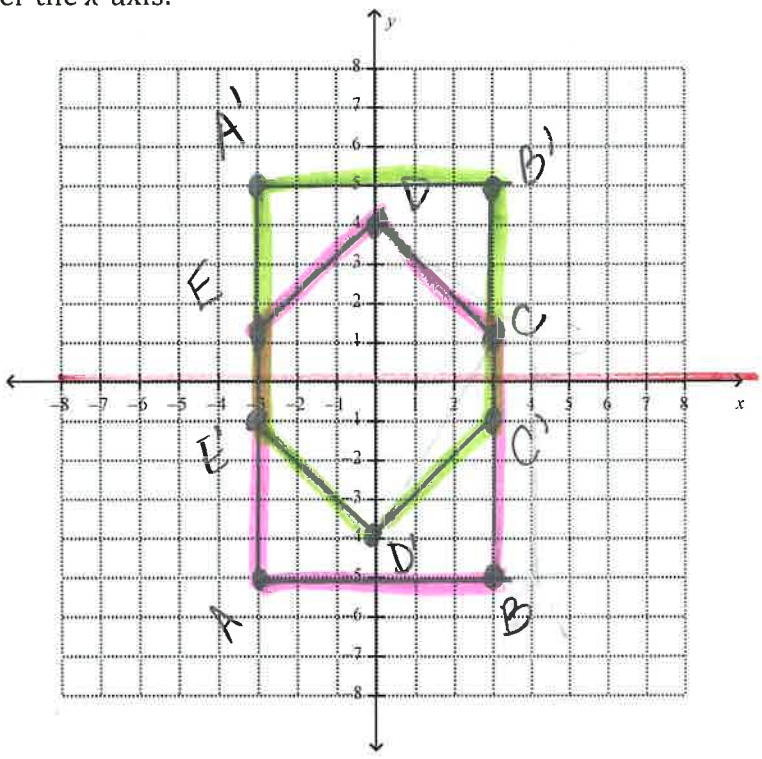
c) State the general rule:

$(x, y) \rightarrow (x+1, y+3)$

5. a) The table below shows the coordinates of pentagon *ABCDE*. Fill in the table below for the coordinates of *A'*, *B'*, *C*, *D''* after a reflection over the *x*-axis.

Pentagon

~~Triangle~~ *ABCDE*		Triangle *A'B'C'*	
A	(-3,-5)	*A'*	(-3, 5)
B	(3,5)	*B'*	(3,5)
C	(3, 1)	*C'*	(3,-1)
D	(0,4)	*D'*	(0,-4)
E	(-3, 1)	*E'*	(-3,-1)

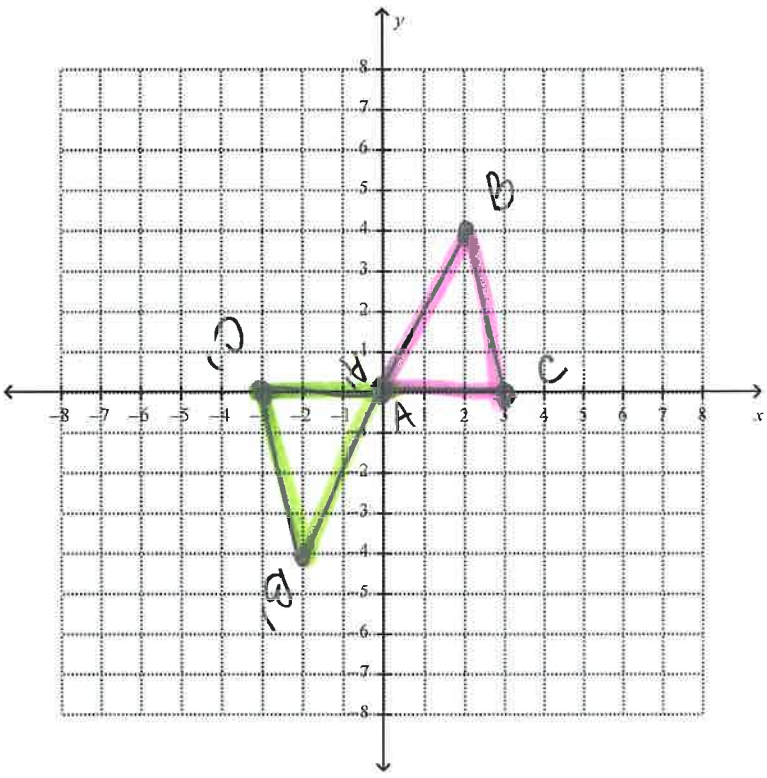


b) Draw *ABCDE* and image *A'B'C'D'E'* after the reflection.

c) State the general rule:
$(x, y) \rightarrow (\ -x\ ,\ -y\ )$

6. a) The table below shows the coordinates of triangle *ABC*. Fill in the table below for the coordinates of *A'*, *B'*, and *C'* after a 180° counterclockwise rotation.

Triangle *RST*		Triangle *R'S'T'*	
A	(0, 0)	*A'*	(0,0)
B	(2, 4)	*B'*	(-2,-4)
C	(3, 0)	*C'*	(-3,0)



b) Draw triangle *ABC* and image *A'B'C'* after the reflection.

c) State the general rule:
$(x, y) \rightarrow (\ -x\ ,\ -y\ )$