93 The vertices of $\triangle ABC$ are $A(2, 1)$, $B(3, 4)$, and $C(1, 3)$. If $\triangle ABC$ is translated 1 unit down and 3 units to the left to create $\triangle DEF$, what are the coordinates of the vertices of $\triangle DEF$?

A $D(0, 1), E(1, 2), F(1, 3)$

B $D(0, -1), E(0, 3), F(-2, -2)$

C $D(-2, 2), E(0, 3), F(-1, 0)$

D $D(-1, 0), E(0, 3), F(-2, 2)$

CSG00817

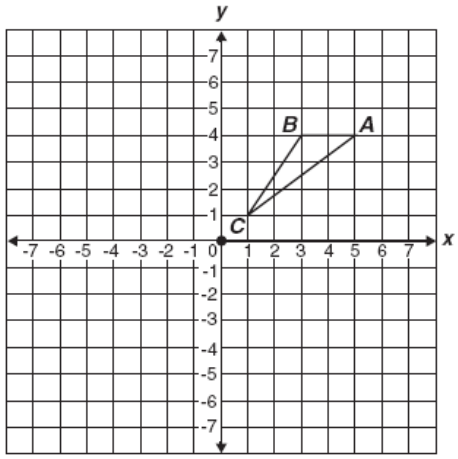
94 If triangle ABC is rotated 180 degrees about the origin, what are the coordinates of A'?

A $(-5, -4)$

B $(-5, 4)$

C $(-4, 5)$

D $(-4, -5)$



95 Trapezoid $ABCD$ below is to be translated to trapezoid $A'B'C'D'$ by the following motion rule.

$$(x, y) \rightarrow (x + 3, y - 4)$$

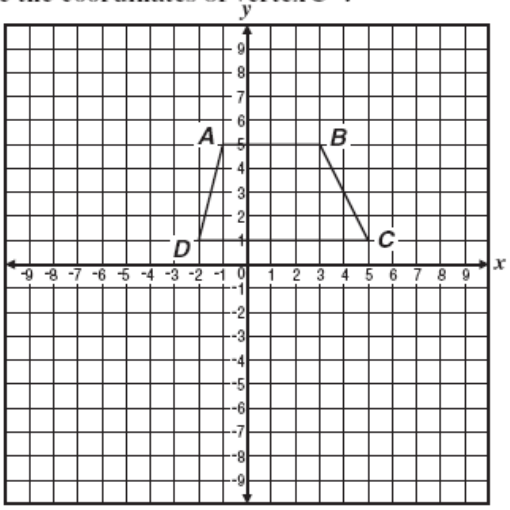
What will be the coordinates of vertex C'?

A $(1, -3)$

B $(2, 1)$

C $(6, 1)$

D $(8, -3)$



96 Which expression describes the translation of a point from $(-3, 4)$ to $(4, -1)$?

A 7 units left and 5 units up

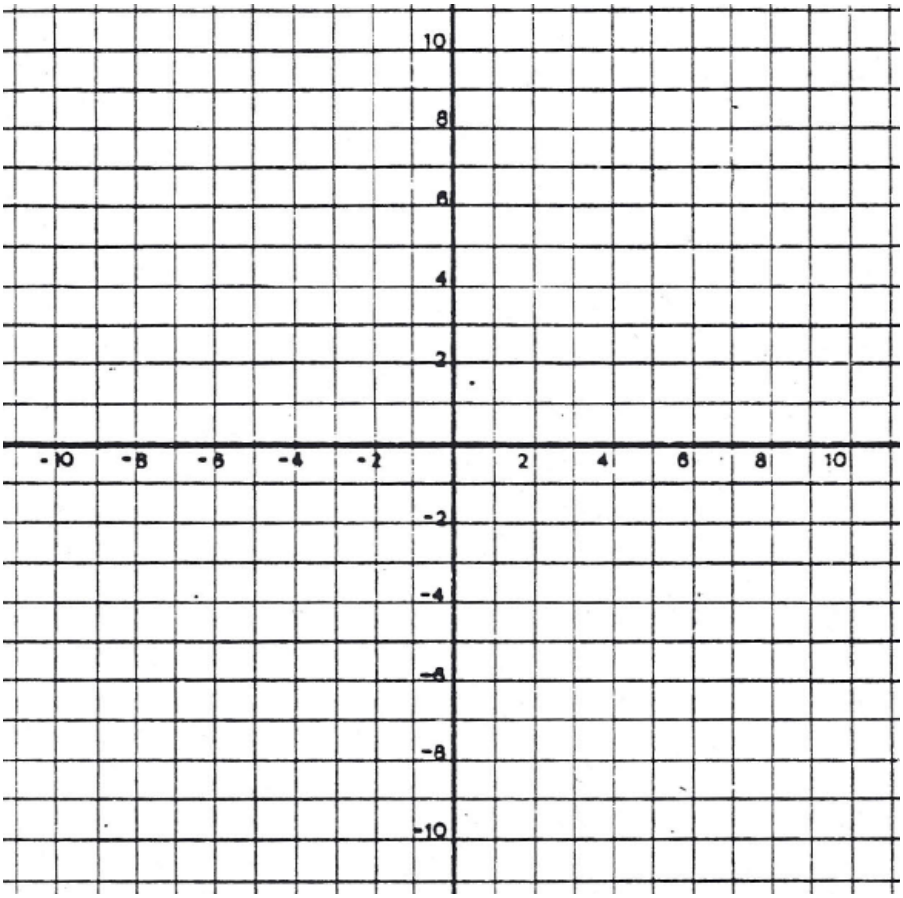
B 7 units right and 5 units up

C 7 units left and 5 units down

D 7 units right and 5 units down

CSG20057

Ch 14 extra practice Name_____



Find the image of the point C (-3, 6) after each transformation. Use graph as needed.

1. reflection in the line $y = x$

2. half-turn with center (-1, 1)

3. rotation of 90º with center at (0, 0)

4. glide 5 units right, followed by a reflection in the line $y = 8$

5. dilation with center (0, 0) and scale factor -1/3

6. transformation T: $(x, y) \rightarrow (2x - 1, y - 9)$

7. reflection in the line x-axis followed by a reflection in the line $x = -6$