Name: _____

U6 Scavenger Hunt:

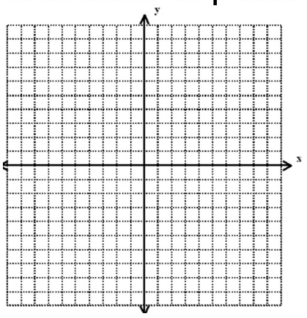
I can graph and describe transformations on the coordinate grid.

- Start at task number 1
- Look for the answer on another task card
- That task card has your next task (question)
- Keep going until you have completed all task cards.

Task Card 1

Answer: (3, -3)

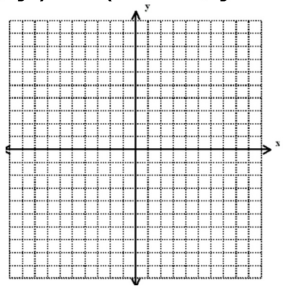
The translation $(x, y) \rightarrow (x - 1, y + 3)$ **was used** to move Rectangle *JKLM* to Rectangle *J´K´L´M´*. K'(6,-8) What are the coordinates of point *K?*



Task Card 2

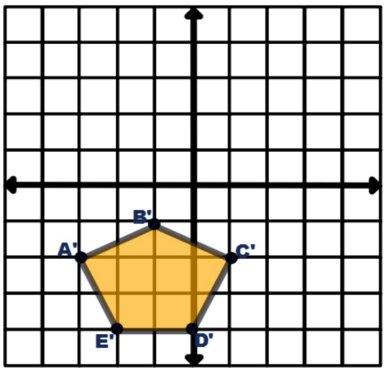
Answer: (3,6)

A triangle has vertices A (-3, -3), B (1, 1), and C (3, -4). What are the coordinates of C' after the following translation $(x, y) \rightarrow (x + 3, y + 6)$.



Task Card 3

Answer: (-3,3)

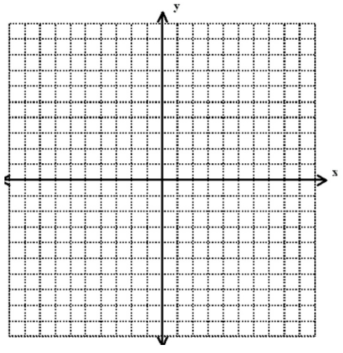


Pentagon A'B'C'D'E' has been moved by the translation (x, y) → (x -3, y+1). What are the coordinates of A?

Task Card 4

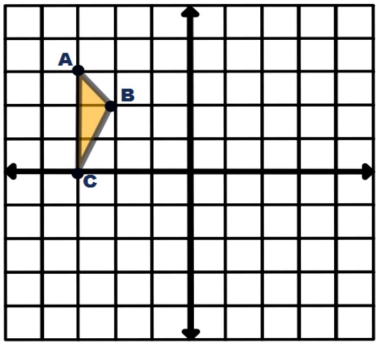
Answer: (1, -1)

Triangle EFG has vertices E(–3, 6), F(-1, 1), and G(-4, -5). Find the coordinates of the image of point E' after a reflection across the *y*-axis.



Task Card 5

Answer: (0, 1)

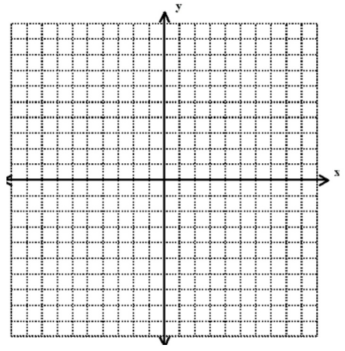


Triangle ABC is shown below. Graph the translation (x, y)→ (x+2, y - 4). What are the coordinates of A'?

Task Card 6

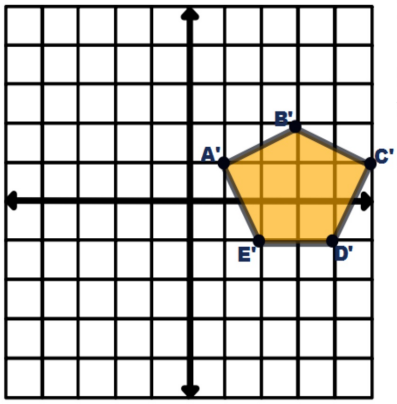
Answer: (6, 2)

Reflect ΔABC: A(5,-2), B(-4,-4), C(2, -8) over the x-axis. What are the coordinates of C'.



Task Card 7

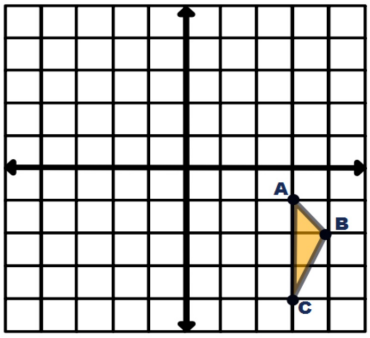
Answer: (2, 8)



Pentagon A'B'C'D'E' has been reflected across the y-axis. What is the coordinates of C.

Task Card 8

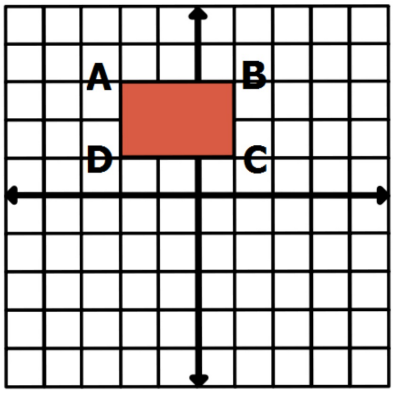
Answer: (-5, 1)



Triangle ABC is shown below. Graph the translation (x, y) → (x -3, y+2). What are coordinates of A'?

Task Card 9

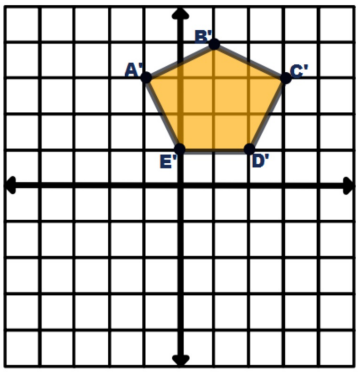
Answer: (0,-3)



Rectangle ABCD is shown. Graph the translation (x, y) → (x+3, y - 4). What are the coordinates of A'?

Task Card 10

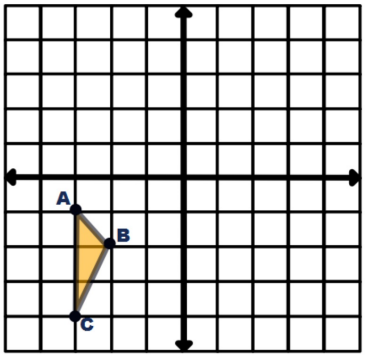
Answer: (-1, -1)



Pentagon A'B'C'D'E' has been reflected across the x-axis. What are the coordinates of C.

Task Card 11

Answer: (7,-11)



Triangle ABC is shown below. Graph the translation (x, y) → (x, y+4). What are the coordinates of A'?