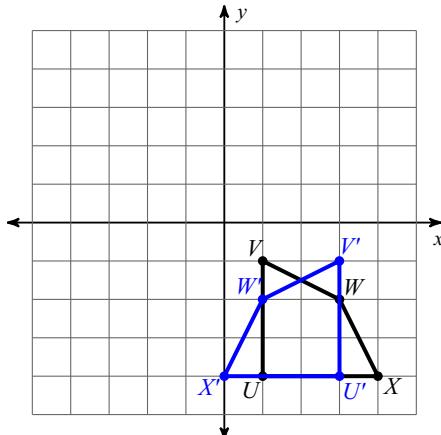
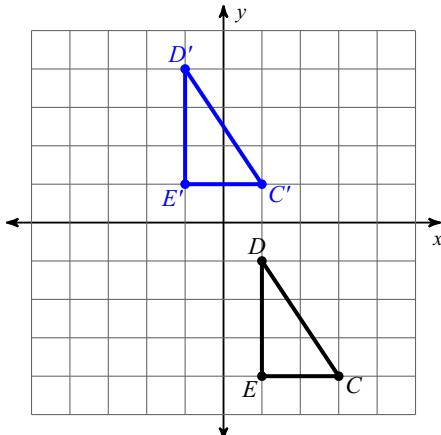


1)



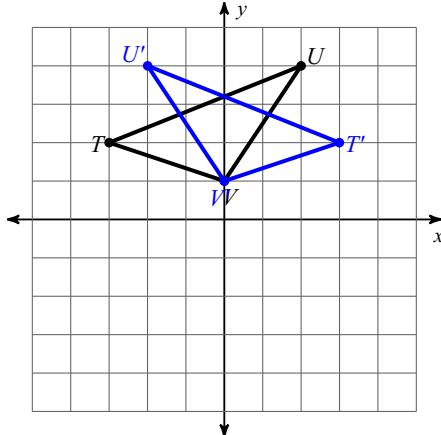
- A) reflection across the x-axis
- B) reflection across $x = 2$
- C) translation: 1 unit right and 6 units up
- D) reflection across $y = -2$

2)



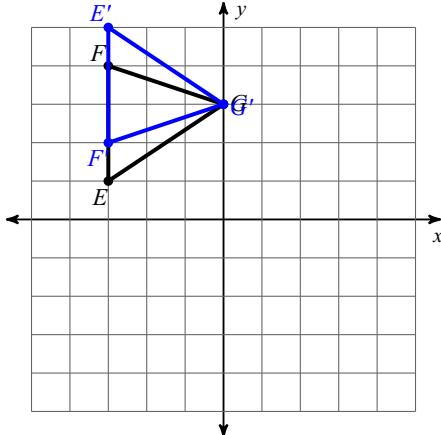
- A) reflection across $y = -1$
- B) translation: 2 units left and 5 units up
- C) translation: 1 unit right and 4 units up
- D) reflection across $x = -1$

3)



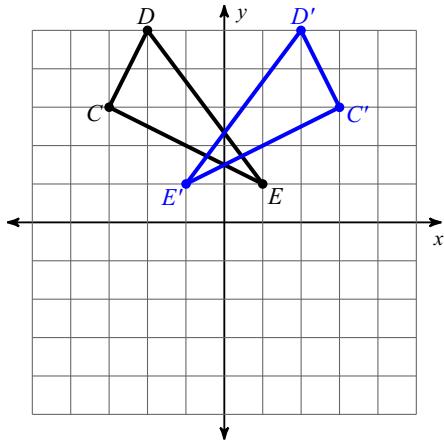
- A) reflection across the y-axis
- B) translation: 1 unit left and 6 units down
- C) reflection across $y = 1$
- D) translation: 3 units right

4)

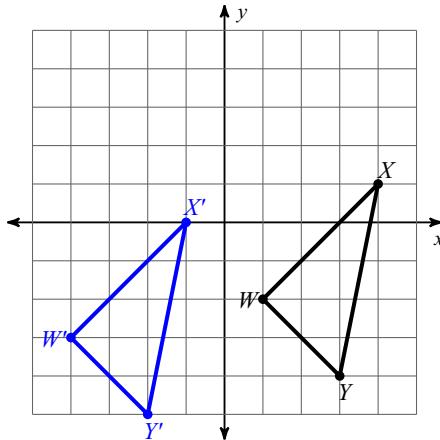


- A) reflection across $x = -1$
- B) reflection across $y = 3$
- C) translation: 1 unit right and 6 units down
- D) translation: 1 unit right and 2 units down

5)

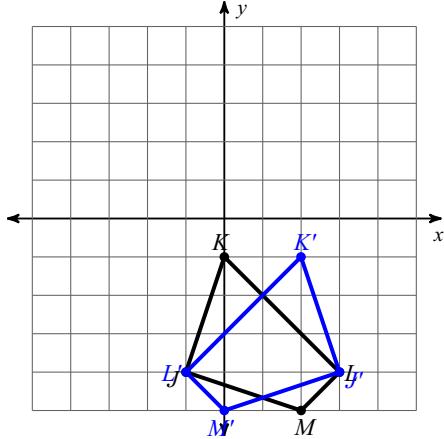


6)



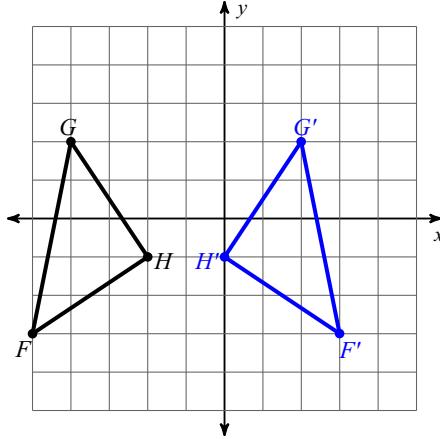
- A) reflection across $x = -2$
- B) translation: 2 units left and 3 units down
- C) translation: 4 units right and 3 units down
- D) reflection across the y-axis

7)



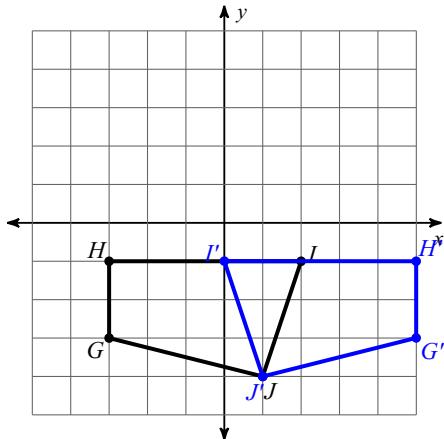
- A) reflection across the x-axis
- B) translation: 3 units left and 5 units up
- C) reflection across $x = 1$
- D) translation: 3 units left and 4 units up

8)



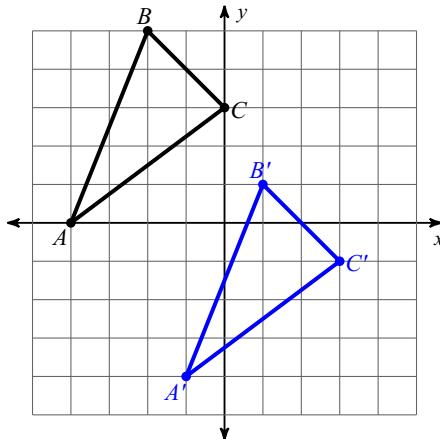
- A) reflection across $y = 1$
- B) reflection across $x = -1$
- C) translation: 2 units right and 3 units up
- D) translation: 1 unit up

9)



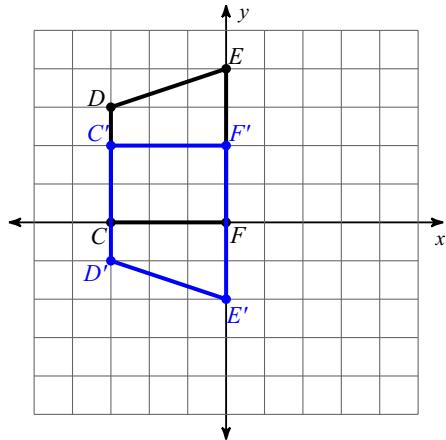
- A) translation: 1 unit right and 3 units up
- B) reflection across the y-axis
- C) reflection across $x = 1$
- D) translation: 2 units left and 4 units up

10)



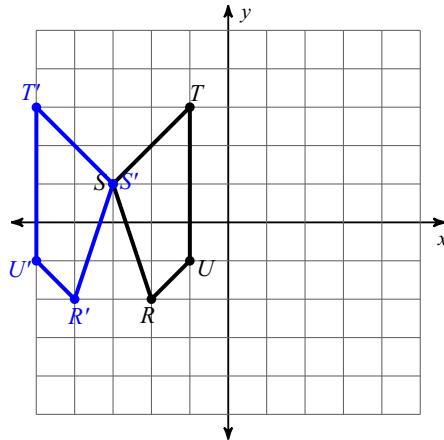
- A) translation: 3 units right and 4 units down
- B) reflection across $x = -1$
- C) reflection across $x = -2$
- D) translation: 5 units right

11)



- A) translation: 3 units right and 5 units down
 B) translation: 3 units right and 4 units down
 C) reflection across $y = 1$
 D) translation: 2 units left and 4 units down

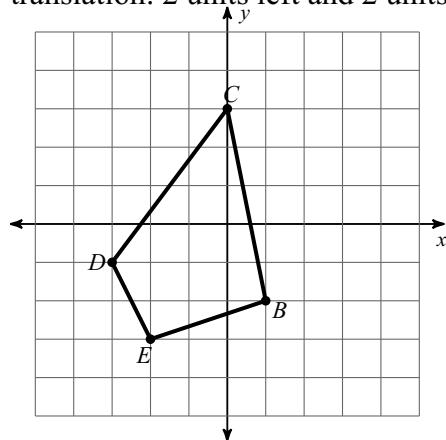
12)



- A) translation: 1 unit left
 B) reflection across $x = -3$
 C) reflection across $x = 1$
 D) reflection across $y = 1$

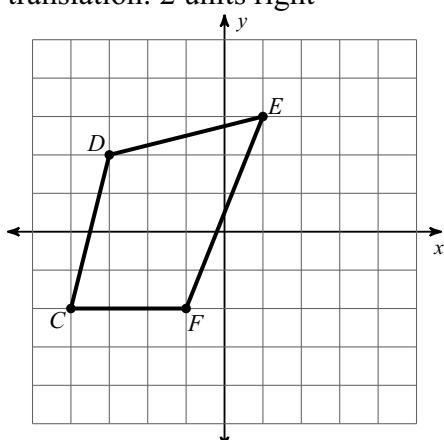
Find the coordinates of the vertices of each figure after the given transformation.

- 13) translation: 2 units left and 2 units down



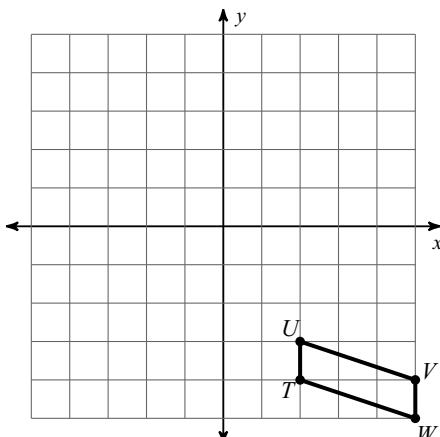
- A) $D(5, -1), C(2, 3), B(1, -2), E(4, -3)$
 B) $D'(-1, -1), C'(-4, 3), B'(-5, -2), E'(-2, -3)$
 C) $E'(-4, -5), D'(-5, -3), C'(-2, 1), B'(-1, -4)$
 D) $E'(2, -2), D'(1, 0), C(4, 4), B(5, -1)$

- 14) translation: 2 units right



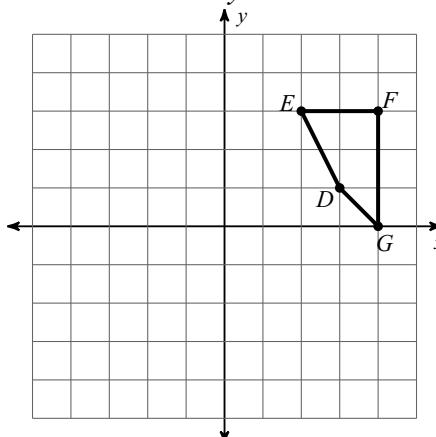
- A) $C'(-5, -5), D'(-4, -1), E'(0, 0), F'(-2, -5)$
 B) $C'(-2, -2), D'(-1, 2), E'(3, 3), F'(1, -2)$
 C) $D'(-3, -2), E'(1, -3), F'(-1, 2), C'(-4, 2)$
 D) $C'(-4, 0), D'(-3, 4), E'(1, 5), F'(-1, 0)$

15) reflection across $x = 1$



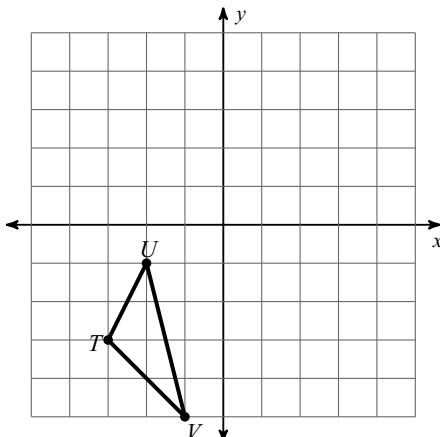
- A) $U'(0, -3), V'(-3, -4), W'(-3, -5), T'(0, -4)$
- B) $T'(0, 1), U'(0, 2), V'(3, 1), W'(3, 0)$
- C) $T'(-5, 1), U'(-5, 2), V'(-2, 1), W'(-2, 0)$
- D) $T'(-2, 3), U'(-2, 4), V'(1, 3), W'(1, 2)$

16) reflection across $y = 2$



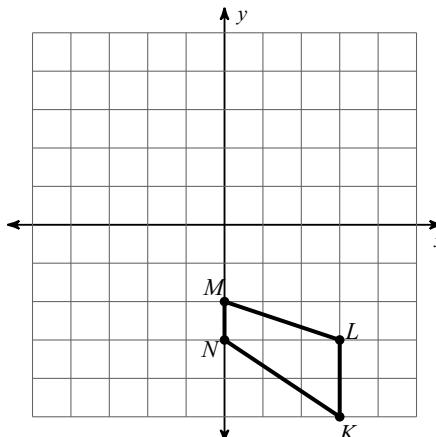
- A) $D'(2, 0), E'(1, 2), F'(3, 2), G'(3, -1)$
- B) $E'(2, 1), F'(4, 1), G'(4, 4), D'(3, 3)$
- C) $E'(2, -1), F'(4, -1), G'(4, 2), D'(3, 1)$
- D) $E'(0, 3), F'(-2, 3), G'(-2, 0), D'(-1, 1)$

17) reflection across $x = -3$



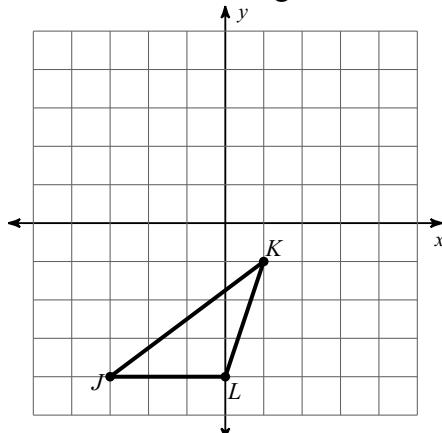
- A) $U'(-2, -3), V'(-1, 1), T'(-3, -1)$
- B) $T'(1, -3), U'(2, -1), V'(3, -5)$
- C) $U'(2, -1), V'(1, -5), T'(3, -3)$
- D) $U'(-4, -1), V'(-5, -5), T'(-3, -3)$

18) reflection across $x = 2$



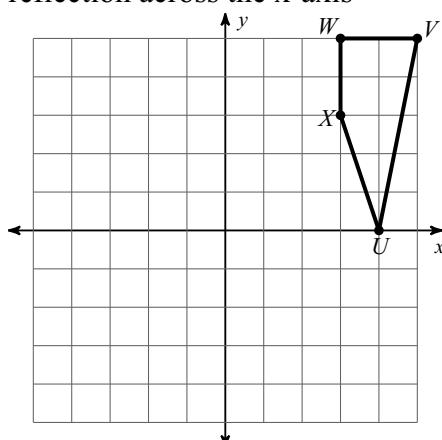
- A) $N'(-4, 3), M'(-4, 4), L'(-1, 3), K'(-1, 1)$
- B) $N'(-5, 3), M'(-5, 4), L'(-2, 3), K'(-2, 1)$
- C) $M'(4, -2), L'(1, -3), K'(1, -5), N'(4, -3)$
- D) $N'(-4, -1), M'(-4, 0), L'(-1, -1), K'(-1, -3)$

19) translation: 2 units right and 3 units up



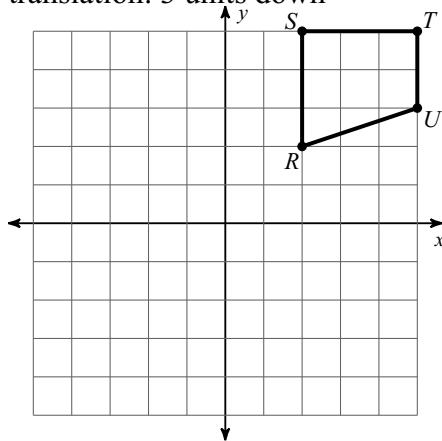
- A) $J'(1, -1)$, $K'(3, 2)$, $L'(2, -1)$
- B) $J'(-1, 2)$, $K'(3, 5)$, $L'(2, 2)$
- C) $K'(1, -5)$, $L'(0, -2)$, $J'(-3, -2)$
- D) $J'(1, -5)$, $K'(5, -2)$, $L'(4, -5)$

21) reflection across the x-axis



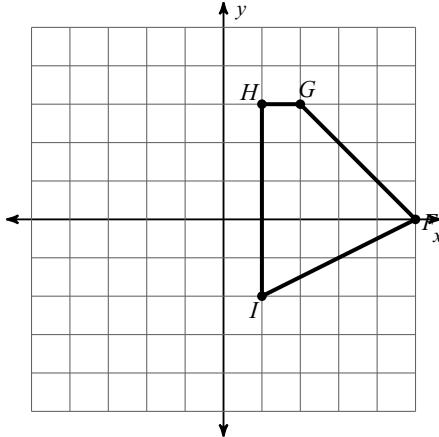
- A) $X'(-3, 3)$, $W'(-3, 5)$, $V'(-1, 5)$, $U'(-2, 0)$
- B) $W'(-1, 5)$, $V'(-3, 5)$, $U'(-2, 0)$, $X'(-1, 3)$
- C) $X'(-1, 1)$, $W'(-1, 3)$, $V'(1, 3)$, $U'(0, -2)$
- D) $W'(3, -5)$, $V'(5, -5)$, $U'(4, 0)$, $X'(3, -3)$

23) translation: 3 units down



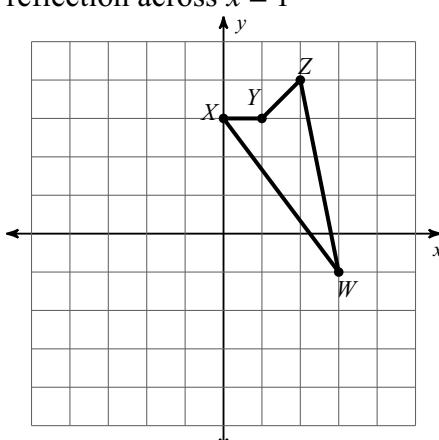
- A) $R'(-1, 1)$, $S'(-1, 4)$, $T'(2, 4)$, $U'(2, 2)$
- B) $R'(2, -1)$, $S'(2, 2)$, $T'(5, 2)$, $U'(5, 0)$
- C) $R'(-3, -2)$, $S'(-3, 1)$, $T'(0, 1)$, $U'(0, -1)$
- D) $S'(2, -1)$, $T'(5, -1)$, $U'(5, 1)$, $R'(2, 2)$

20) translation: 1 unit left and 1 unit down



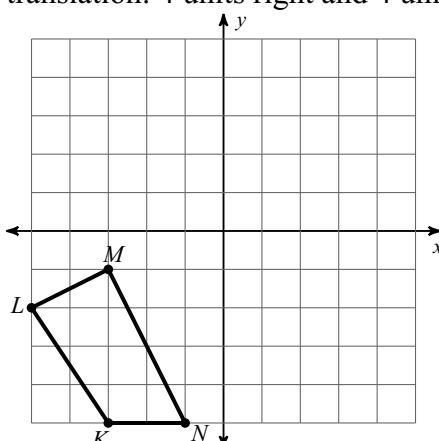
- A) $I'(0, -3)$, $H'(0, 2)$, $G'(1, 2)$, $F'(4, -1)$
- B) $I'(-3, -3)$, $H'(-3, 2)$, $G'(-2, 2)$, $F'(1, -1)$
- C) $H'(1, -5)$, $G'(2, -5)$, $F'(5, -2)$, $I'(1, 0)$
- D) $H'(1, -1)$, $G'(2, -1)$, $F'(5, 2)$, $I'(1, 4)$

22) reflection across $x = 1$



- A) $X'(2, 3)$, $Y'(1, 3)$, $Z'(0, 4)$, $W'(-1, -1)$
- B) $W'(-1, -4)$, $X'(-4, 0)$, $Y'(-3, 0)$, $Z'(-2, 1)$
- C) $W'(3, -4)$, $X'(0, 0)$, $Y'(1, 0)$, $Z'(2, 1)$
- D) $X'(0, 1)$, $Y'(1, 1)$, $Z'(2, 0)$, $W'(3, 5)$

24) translation: 4 units right and 4 units up



- A) $K'(1, -3)$, $L'(-1, 0)$, $M'(1, 1)$, $N'(3, -3)$
- B) $K'(0, -1)$, $L'(-2, 2)$, $M'(0, 3)$, $N'(2, -1)$
- C) $K'(1, -1)$, $L'(-1, 2)$, $M'(1, 3)$, $N'(3, -1)$
- D) $K'(-3, -1)$, $L'(-5, 2)$, $M'(-3, 3)$, $N'(-1, -1)$