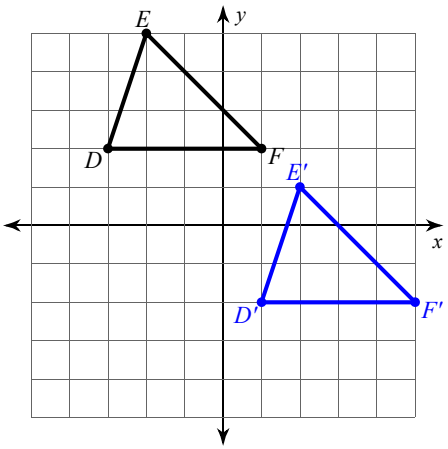
Geometry 1-2 Name_____

Assignment

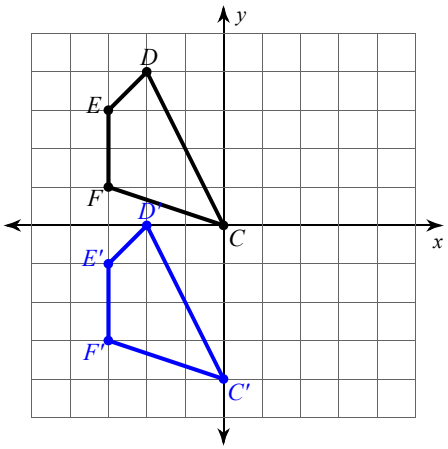
Date_____ Period____

Write a rule to describe each translation from the pre-image to the image.

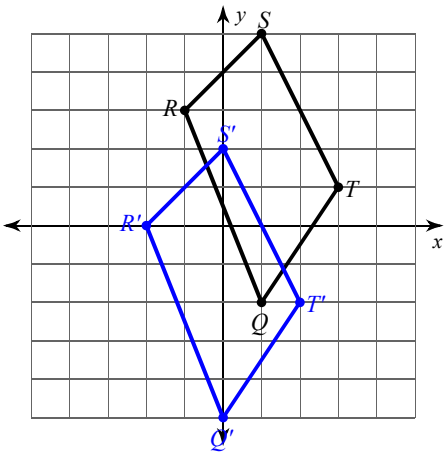
1)



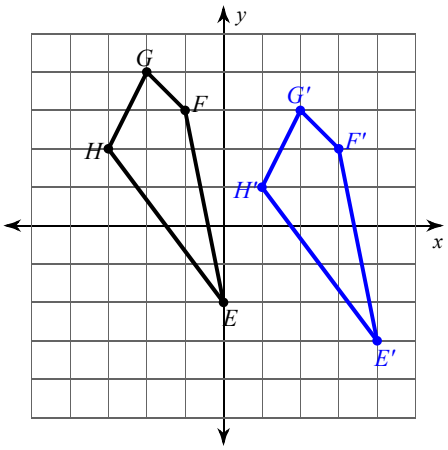
2)



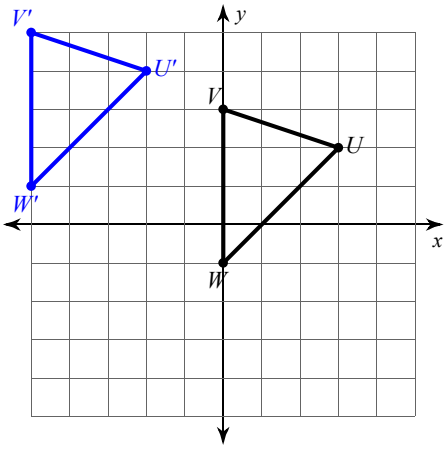
3)



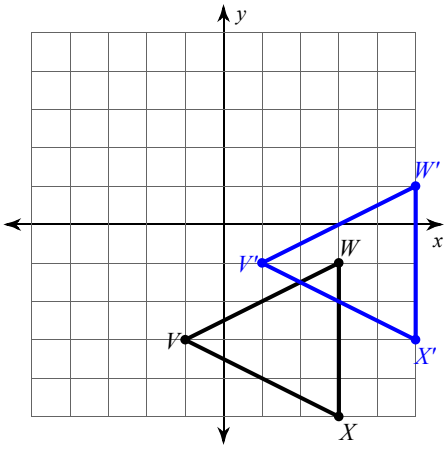
4)



5)



6)



7) $S(-5, -2)$, $T(-4, 0)$, $U(-1, 0)$, $V(-3, -5)$

to

$S'(0, 0)$, $T'(1, 2)$, $U'(4, 2)$, $V'(2, -3)$

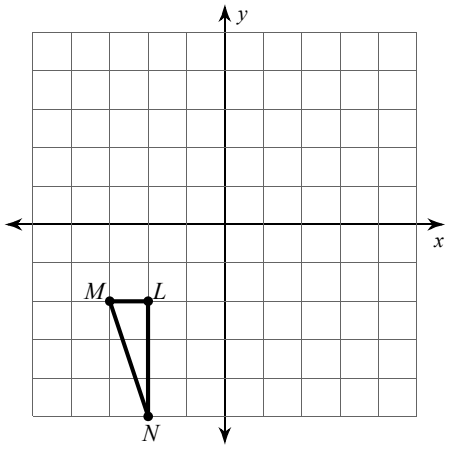
8) $V(1, 1)$, $W(3, 5)$, $X(5, 1)$

to

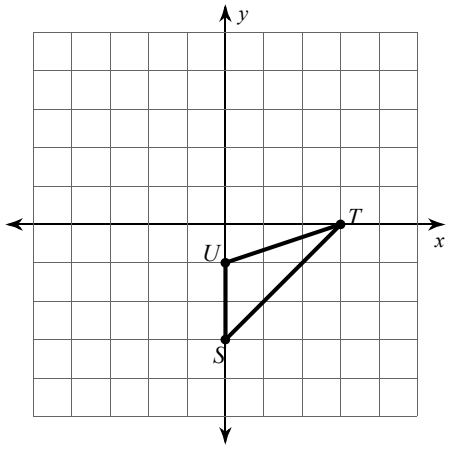
$V'(0, -1)$, $W'(2, 3)$, $X'(4, -1)$

Graph the image using the transformation given.

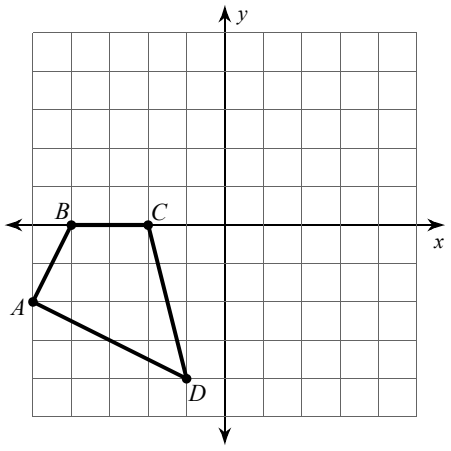
9) translation: $(x, y) \rightarrow (x, y + 3)$



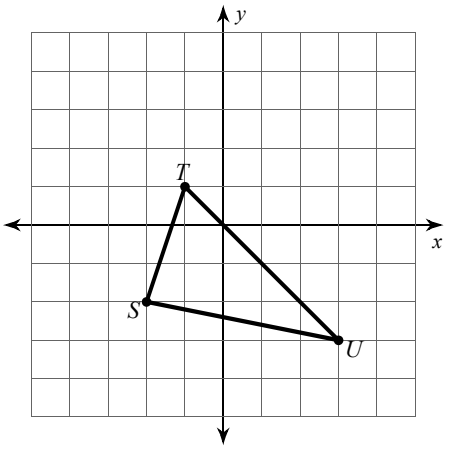
10) translation: $(x, y) \rightarrow (x - 5, y + 2)$



11) translation: $(x, y) \rightarrow (x + 6, y)$

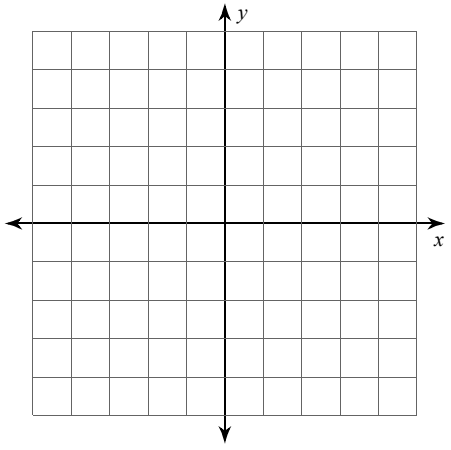


12) translation: $(x, y) \rightarrow (x + 2, y + 4)$

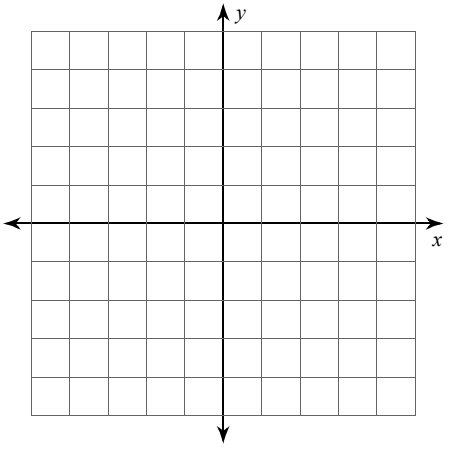


Graph the pre-image and image using the given coordinates and transformation.

13) translation: $(x, y) \rightarrow (x - 1, y + 1)$
$E(-3, -4), F(0, -1), G(1, -4)$



14) translation: $(x, y) \rightarrow (x + 6, y - 4)$
$K(-4, 4), J(-4, 5), I(-1, 4), H(-2, 1)$



Write a rule to describe each translation from the pre-image to the image.

15) $I(-1, 0), H(1, 4), G(3, 3), F(2, -2)$
to
$I'(1, -3), H'(3, 1), G'(5, 0), F'(4, -5)$

16) $Z(0, 2), Y(1, 4), X(2, 4), W(3, 3)$
to
$Z'(1, -1), Y'(2, 1), X'(3, 1), W'(4, 0)$