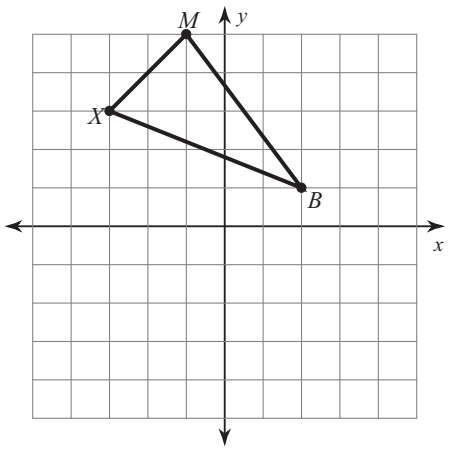
Geometry Name_____

9.2 Translations Homework

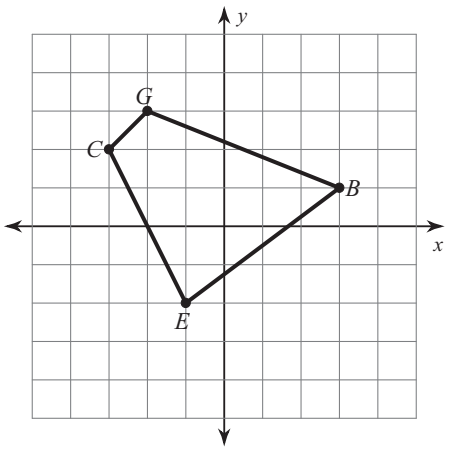
Date_____ Period____

Graph the image of the figure using the transformation given.

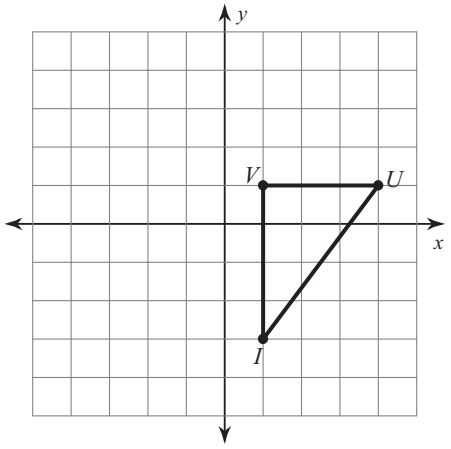
1) translation: $(2, -4)$



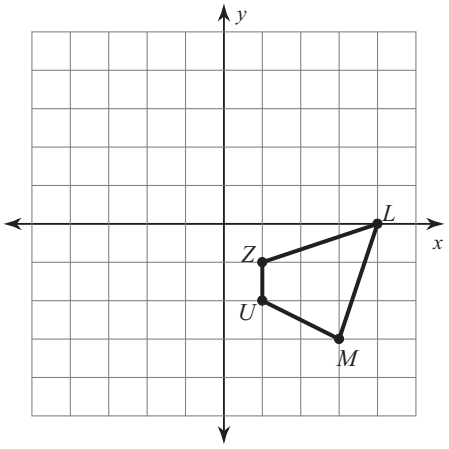
2) translation: $(1, 2)$



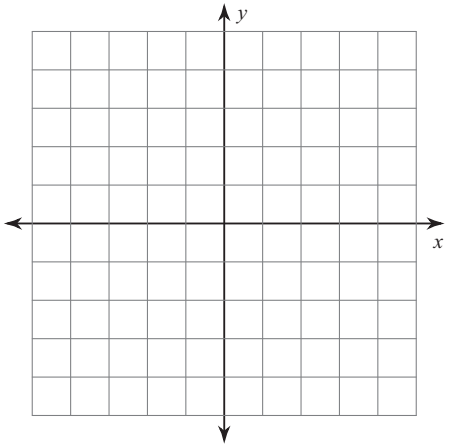
3) translation: $(-3, 1)$



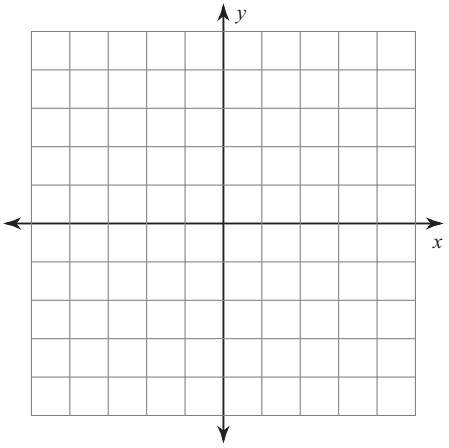
4) translation: $(-5, 2)$



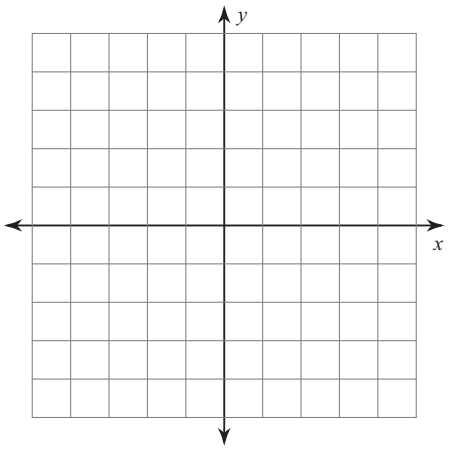
5) translation: $(-2, -1)$
$Y(4, 2)$, $C(5, 4)$, $N(5, 2)$



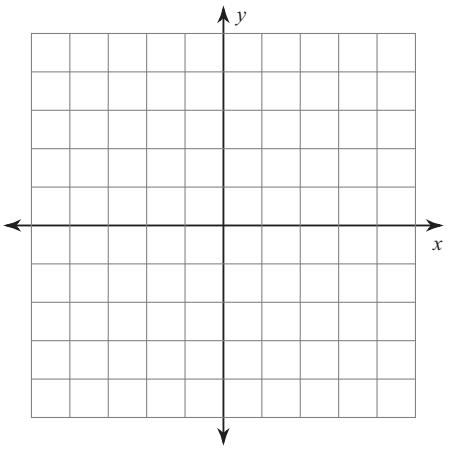
6) translation: $(0, -4)$
$S(0, 0)$, $W(3, 4)$, $N(5, 4)$, $M(4, -1)$



7) translation: $(3, 2)$
$A(-4, -5)$, $X(-1, -1)$, $R(1, -3)$

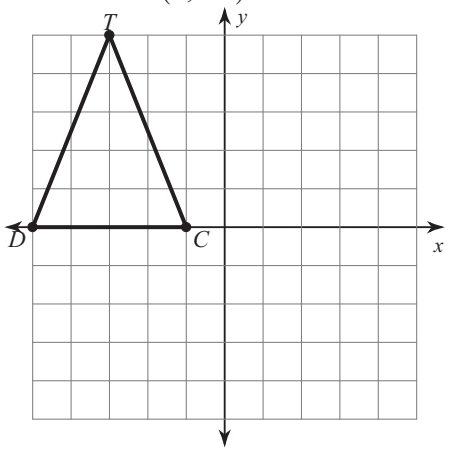


8) translation: $(2, 1)$
$P(-2, 0)$, $R(-4, 3)$, $W(1, 4)$, $Q(0, 0)$

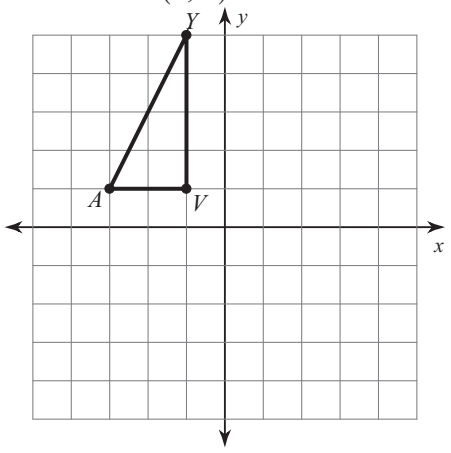


Find the coordinates of the vertices of each figure after the given transformation.

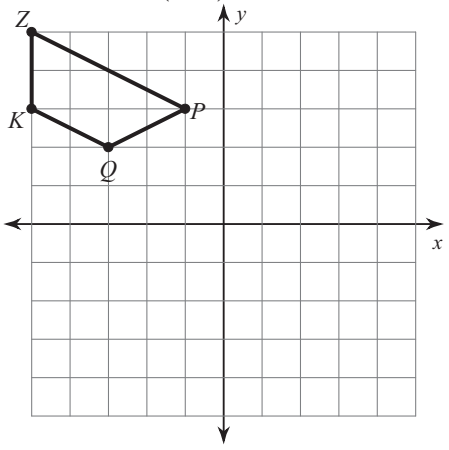
9) translation: $(5, -2)$



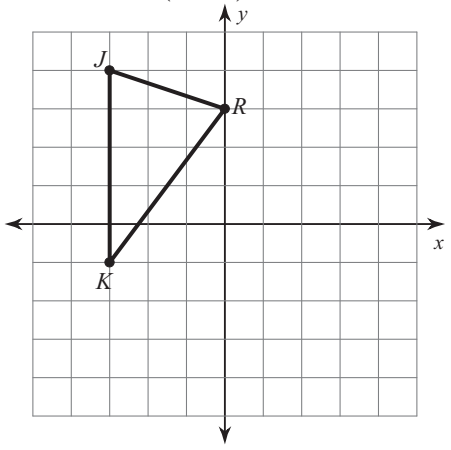
10) translation: $(5, 0)$



11) translation: $(3, 0)$

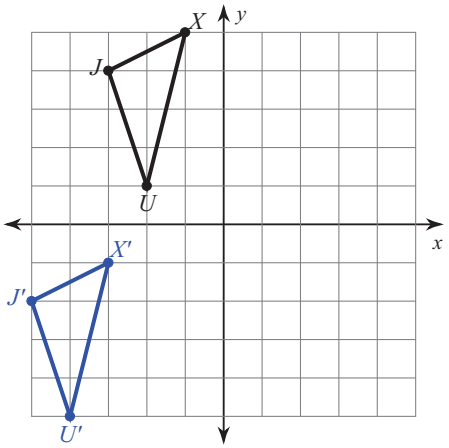


12) translation: $(4, -2)$

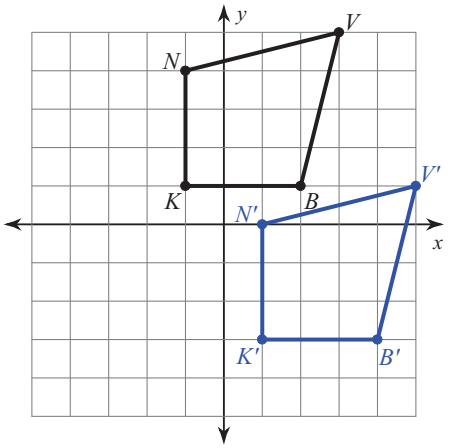


Write a rule to describe each transformation.

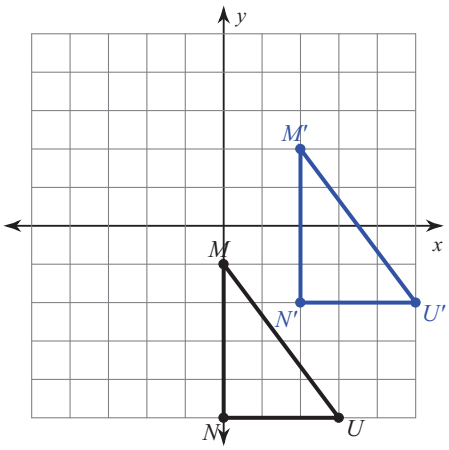
13)



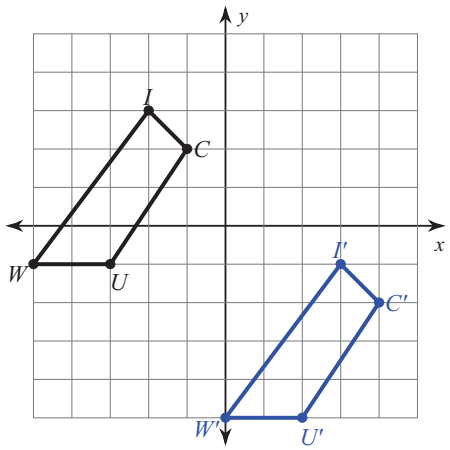
14)



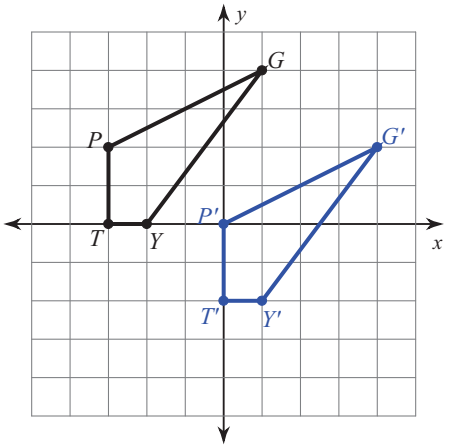
15)



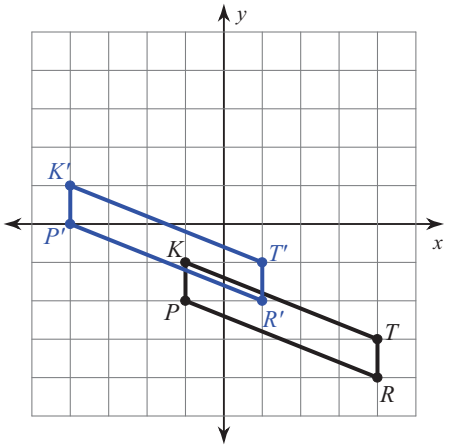
16)



17)



18)

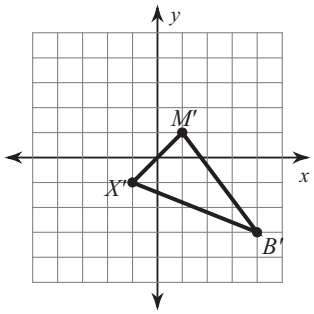


19) $R(1, 1), W(4, 3), Y(2, -2)$
to
$R'(-2, 2), W'(1, 4), Y'(-1, -1)$

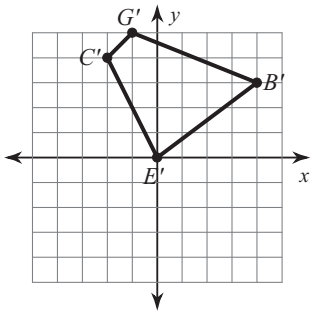
20) $J(-1, 2), W(-1, 5), C(3, 3)$
to
$J'(-4, 0), W'(-4, 3), C'(0, 1)$

Answers to 9.2 Translations Homework (ID: 1)

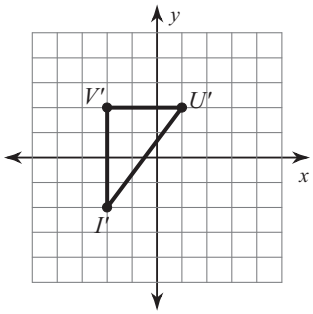
1)



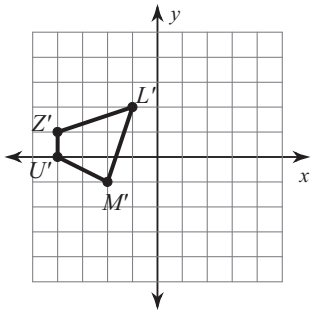
2)



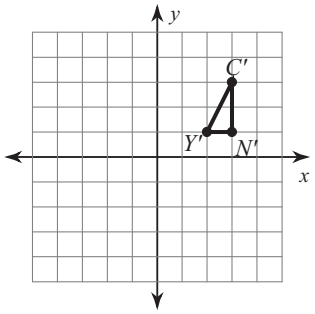
3)



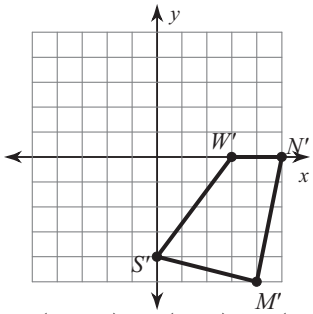
4)



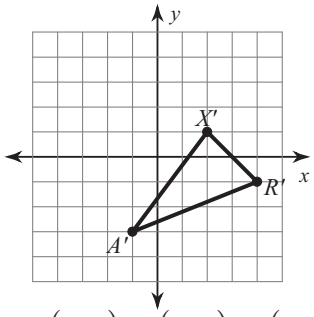
5)



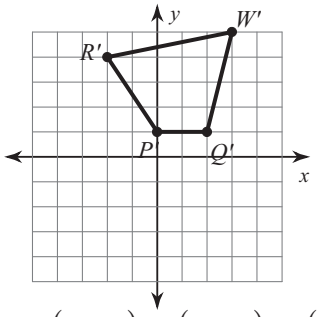
6)



7)



8)



9) $D'(0, -2)$, $T'(2, 3)$, $C'(4, -2)$

10) $A'(2, 1)$, $Y'(4, 5)$, $V'(4, 1)$

11) $K'(-2, 3)$, $Z'(-2, 5)$, $P'(2, 3)$, $Q'(0, 2)$

12) $K'(1, -3)$, $J'(1, 2)$, $R'(4, 1)$

13) translation: $(-2, -6)$

14) translation: $(2, -4)$

15) translation: $(2, 3)$

16) translation: $(5, -4)$

17) translation: $(3, -2)$

18) translation: $(-3, 2)$

19) translation: $(-3, 1)$

20) translation: $(-3, -2)$