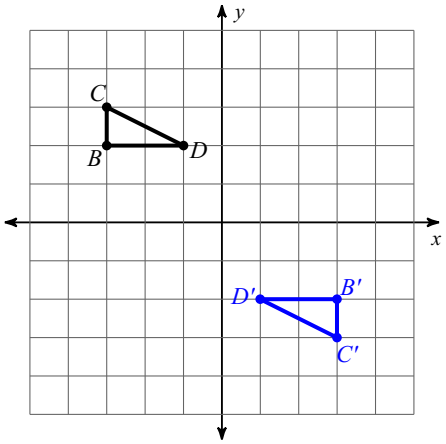
Geometry Name_____ ID: 1

Assignment

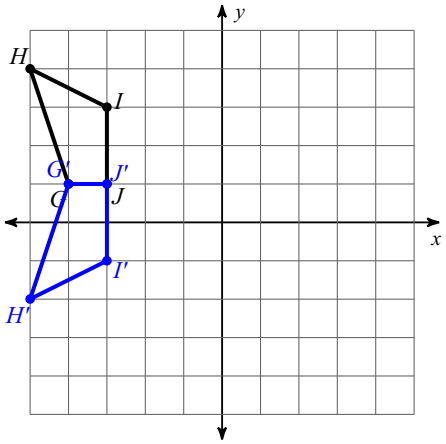
Date_____ Period____

Write a rule to describe each transformation.

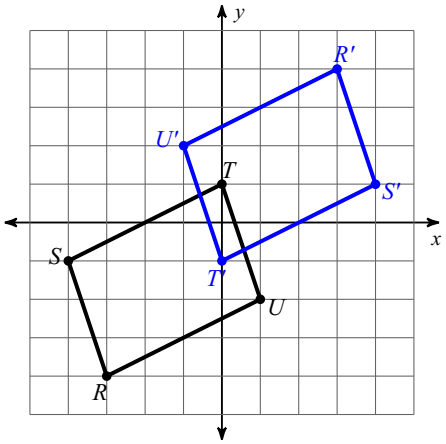
1)



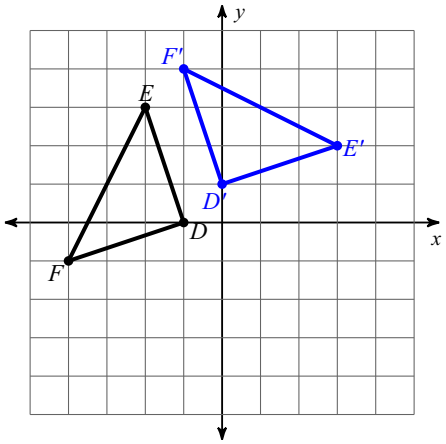
2)



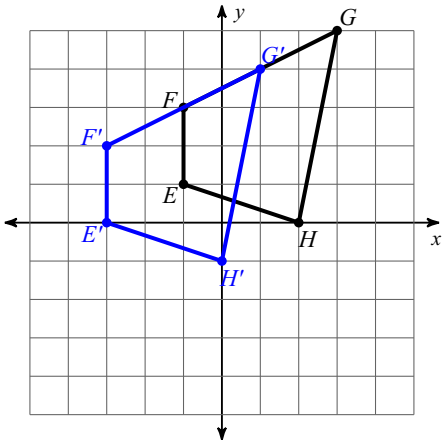
3)



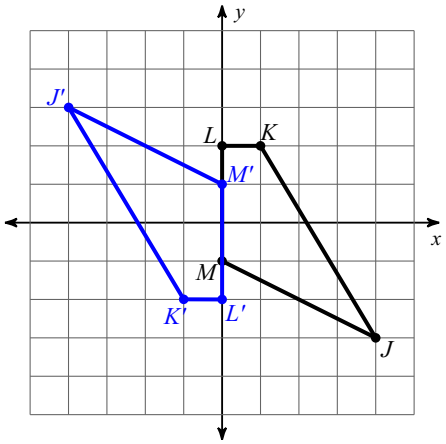
4)



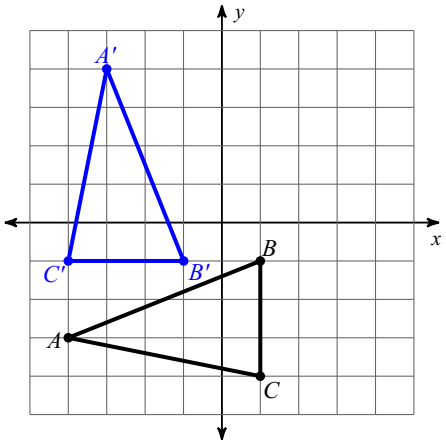
5)



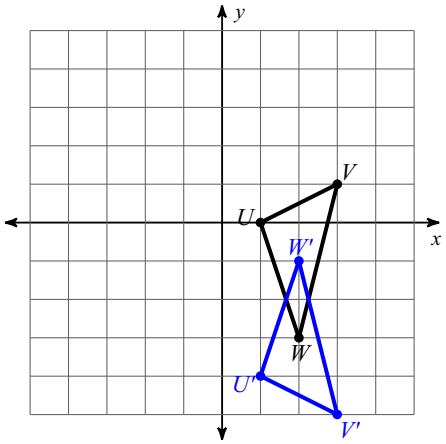
6)



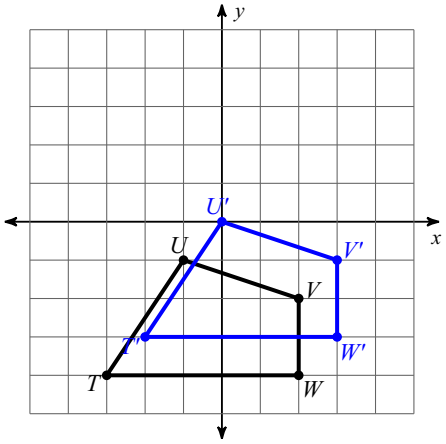
7)



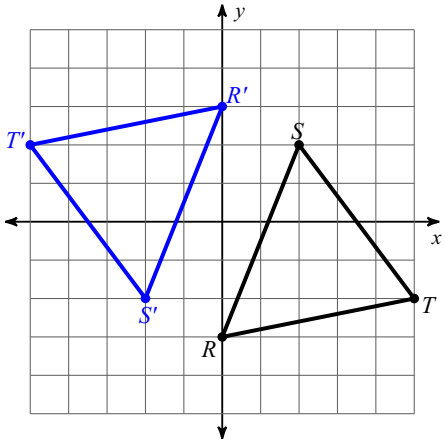
8)



9)

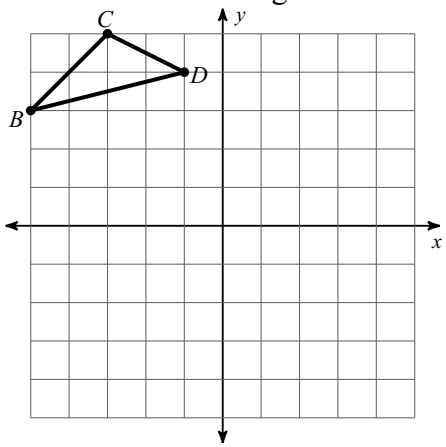


10)

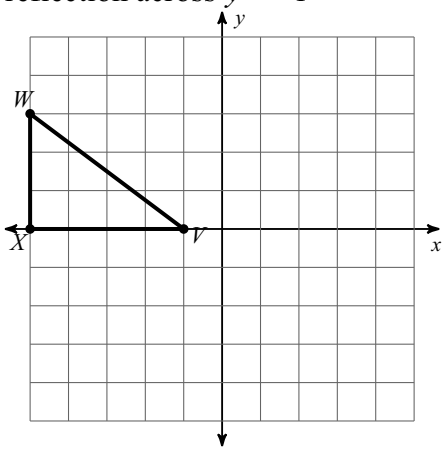


Find the coordinates of the vertices of each figure after the given transformation.

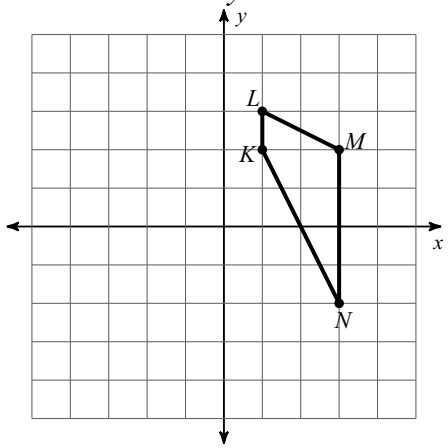
11) translation: 6 units right and 5 units down



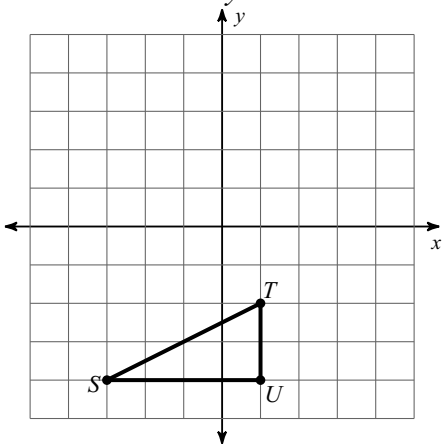
12) reflection across $y = -1$



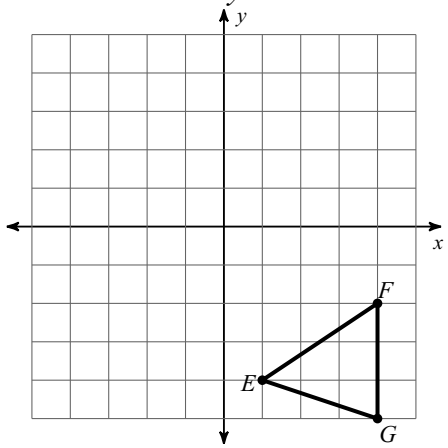
13) reflection across $y = 1$



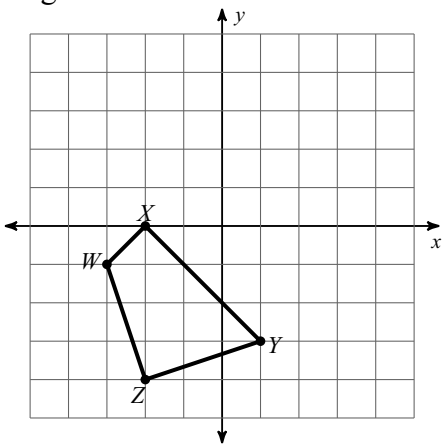
14) reflection across $y = -1$



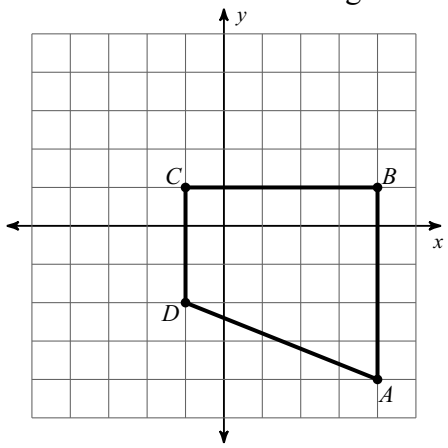
15) reflection across $y = x$



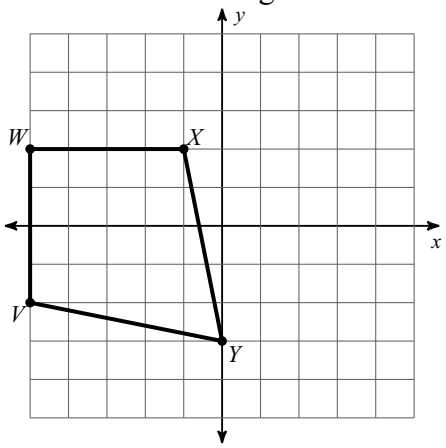
16) rotation 90° counterclockwise about the origin



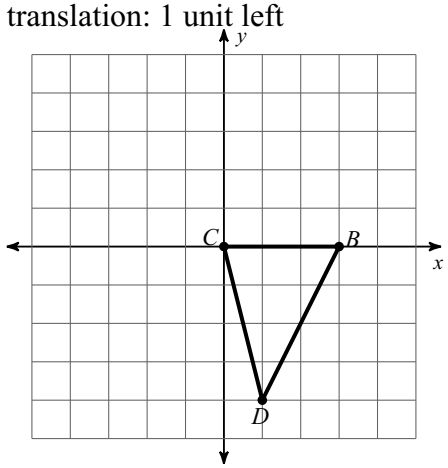
17) rotation 180° about the origin



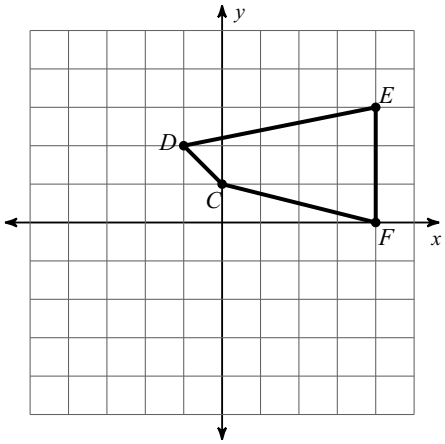
18) translation: 1 unit right and 2 units up



19) translation: 1 unit left



20) reflection across $x = 2$



Answers to Assignment (ID: 1)

1) rotation 180° about the origin
2) reflection across $y = 1$
3) rotation 180° about the origin
4) rotation 90° clockwise about the origin
5) translation: 2 units left and 1 unit down
6) rotation 180° about the origin
7) rotation 90° clockwise about the origin
8) reflection across $y = -2$
9) translation: 1 unit right and 1 unit up
10) rotation 180° about the origin
11) $B'(1, -2)$, $C'(3, 0)$, $D'(5, -1)$
12) $W'(-5, -5)$, $V'(-1, -2)$, $X'(-5, -2)$
13) $L'(1, -1)$, $M'(3, 0)$, $N'(3, 4)$, $K'(1, 0)$
14) $T'(1, 0)$, $U'(1, 2)$, $S'(-3, 2)$
15) $F'(-2, 4)$, $G'(-5, 4)$, $E'(-4, 1)$
16) $W'(1, -3)$, $X'(0, -2)$, $Y'(3, 1)$, $Z'(4, -2)$
17) $D'(1, 2)$, $C'(1, -1)$, $B'(-4, -1)$, $A'(-4, 4)$
18) $V'(-4, 0)$, $W'(-4, 4)$, $X'(0, 4)$, $Y'(1, -1)$
19) $D'(0, -4)$, $C'(-1, 0)$, $B'(2, 0)$
20) $D'(5, 2)$, $E'(0, 3)$, $F'(0, 0)$, $C'(4, 1)$