ons and Transformations

Date_____ Period____

.mage of the figure using the transformation given.

1) d   on of 1.5

2) dilation of 0.5
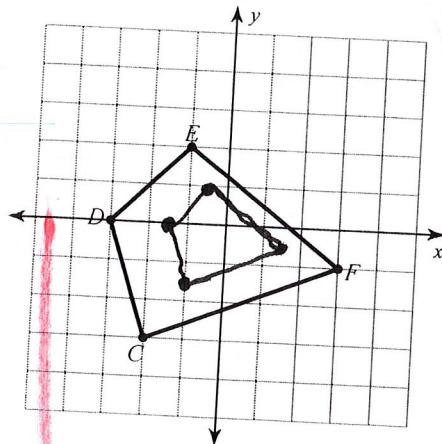
Find the coordinates of the vertices of each figure after the given transformation.

3) dilation of 1.5
   $W(-2, 1), X(2, 2), Y(1, -1)$

$W'(-3, 1.5)$
$X'(3, 3)$
$Y'(1.5, -1.5)$

4) dilation of $\frac{1}{2}$
 $W(2, -1), V(3, 1), U(4, 0), T(5, -3)$

$W'(1, -.5)$
$V'(1.5, .5)$
$U'(2, 0)$
$T'(2.5, -1.5)$

Graph the image of the figure using the transformation given.

5) translation: 1 unit left and 2 units down
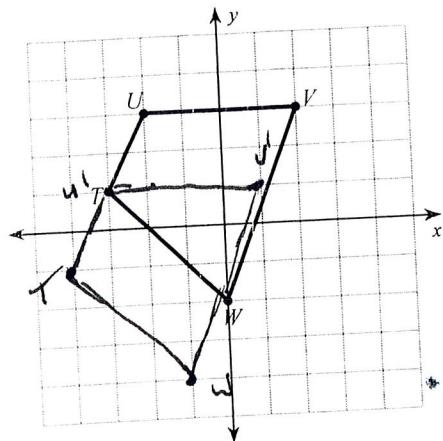
6) translation: 1 unit left and 1 unit up
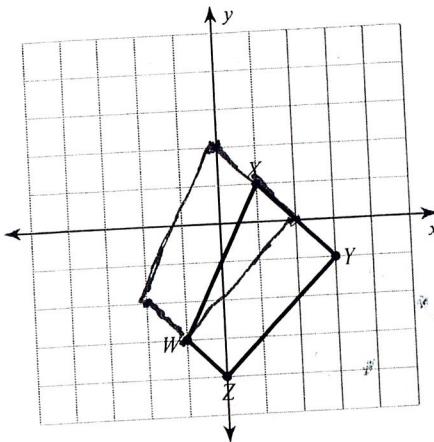
Find the coordinates of the vertices of each figure after the given transformation.

7) translation: 3 units left and 1 unit up
   $H(3, -3), G(2, 2), F(4, 3), E(4, -2)$

$H'(0,-2)$ $G'(-1,3)$ $F'(1,4)$ $E'(1,-1)$

8) translation: 1 unit right and 5 units down
   $Y(-3, 1), X(-3, 2), W(0, 3), V(-1, 1)$

$(-2,-4)$ $(-2,-3)$ $(1,-2)$ $(0,-4)$

Write a rule to describe each transformation.

9)

Slide up 2, R+ 2
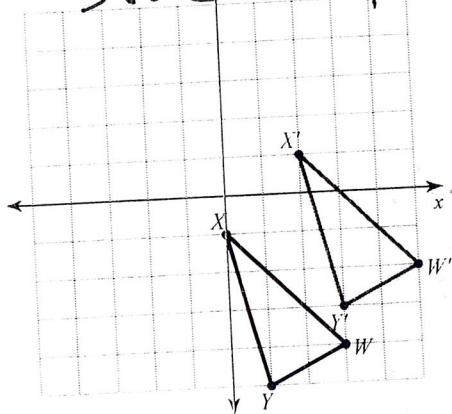
10) $N(-4, 3), M(-1, 5), L(0, 1)$
    to
    $N'(1, -3), M'(4, -1), L'(5, -5)$

Slide R+ 5
Down 6