Dilations

Name_____

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

1) dilation of 2
$J(-2, -1)$, $K(2, 1)$, $L(2, -1)$

2) dilation of 2
$T(-2, -2)$, $U(-1, 2)$, $V(2, 1)$

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

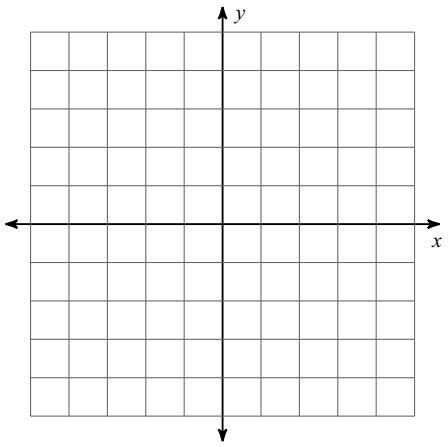
4) dilation of $\frac{1}{4}$
$I(2, 2)$, $J(3, 4)$, $K(5, 3)$, $L(5, 2)$

5) dilation of 1.5
$N(-1, -1)$, $M(-1, 2)$, $L(2, -1)$

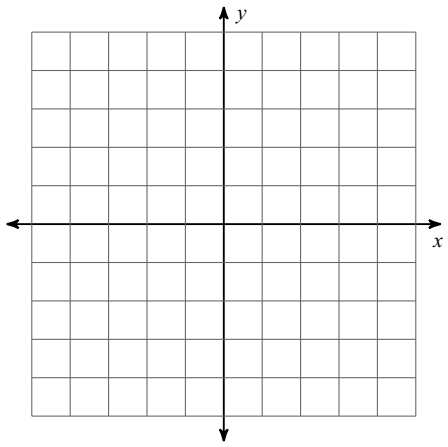
6) dilation of 2.5
$K(-1, -2)$, $L(-1, 2)$, $M(1, 1)$, $N(2, -1)$

Graph the image of the figure using the transformation given.

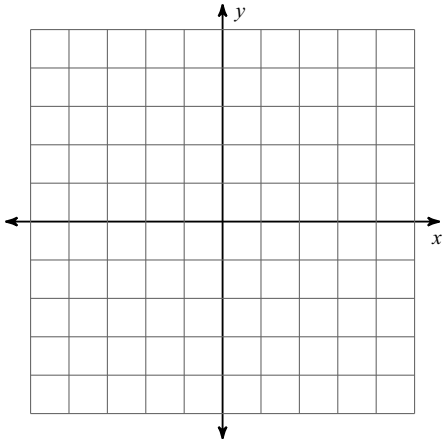
7) dilation of 2
$S(0, 0)$, $R(0, 1)$, $Q(1, 1)$, $P(1, 0)$



8) dilation of 2
$J(-2, 0)$, $K(2, 2)$, $L(2, -1)$



9) dilation of 1.5
$T(-2, 0)$, $U(-2, 2)$, $V(3, 2)$, $W(3, -2)$



10) dilation of $\frac{1}{2}$
$H(0, -3)$, $I(0, 2)$, $J(4, 0)$