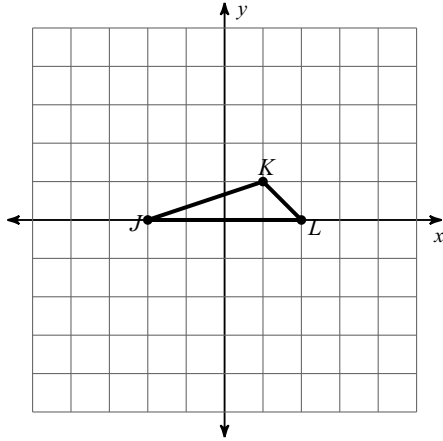


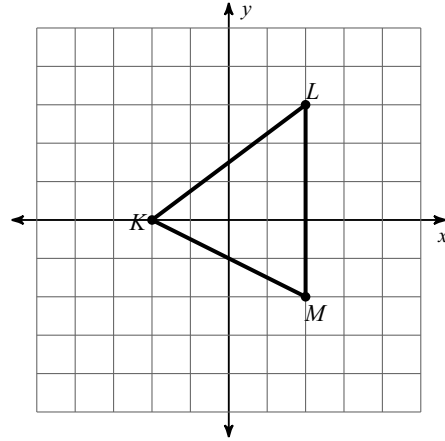
Dilations

Graph the image of the figure using the transformation given.

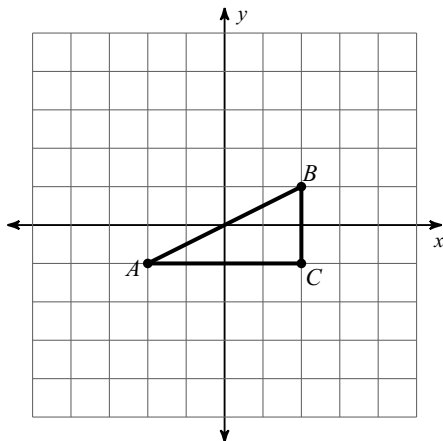
1) dilation of 2 about the origin



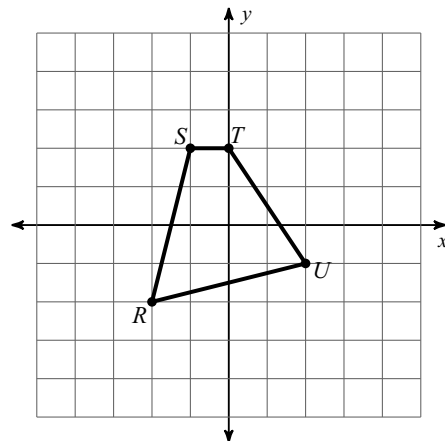
2) dilation of 1.5 about the origin



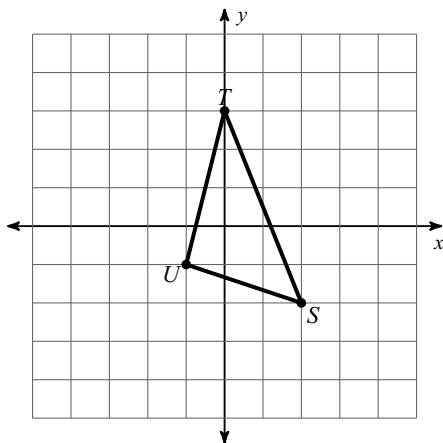
3) dilation of 2 about the origin



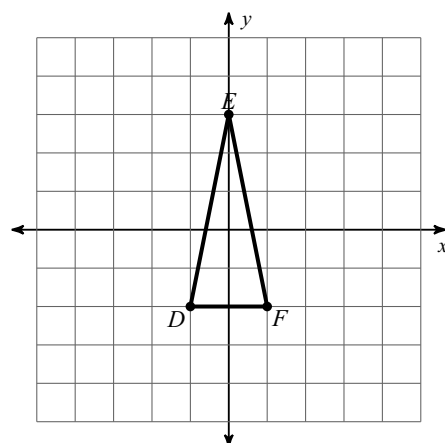
4) dilation of 2 about the origin



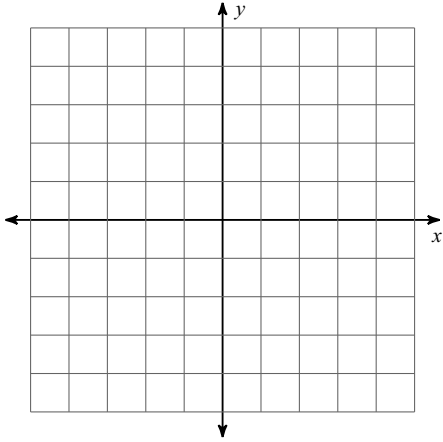
5) dilation of 1.5 about the origin



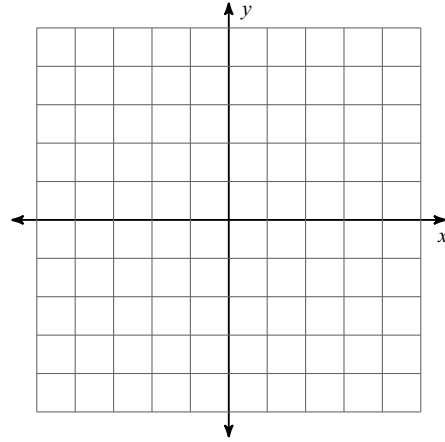
6) dilation of $\frac{3}{2}$ about the origin



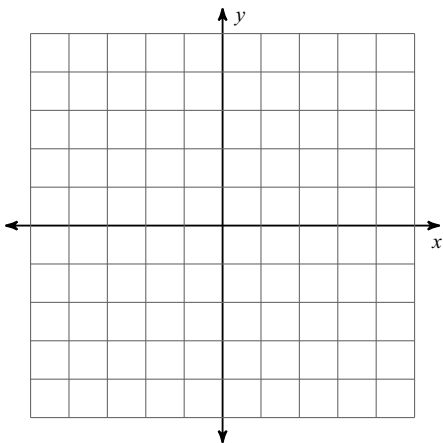
- 7) dilation of 1.5 about the origin
 $K(-2, -2), L(0, 3), M(2, -2)$



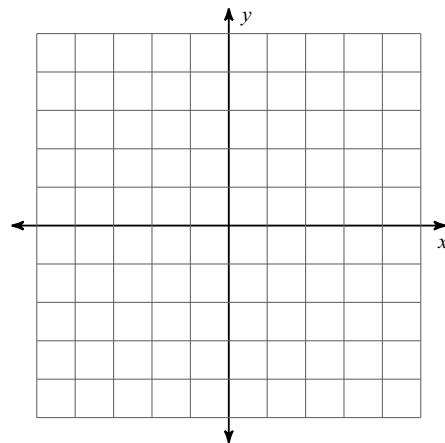
- 8) dilation of 1.5 about the origin
 $W(-1, 1), X(-1, 3), Y(1, 3), Z(0, -2)$



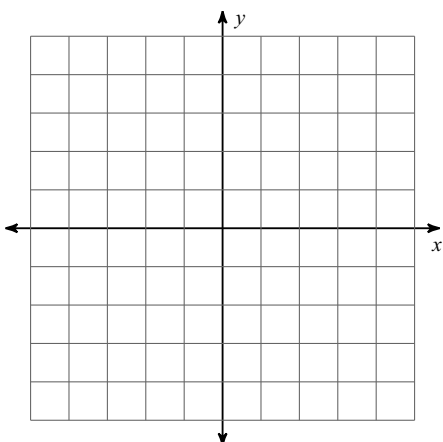
- 9) dilation of 1.5 about the origin
 $Y(-1, 1), X(1, 3), W(2, -2)$



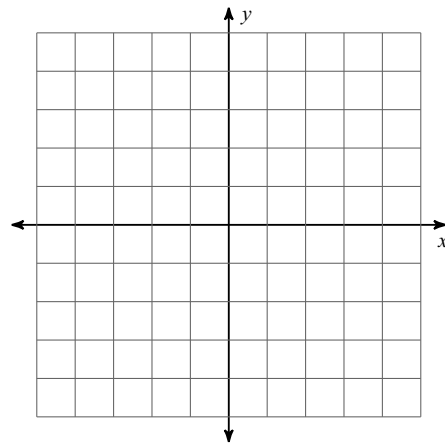
- 10) dilation of 1.5 about the origin
 $S(-2, 0), R(-2, 2), Q(3, 2), P(-1, -1)$



- 11) dilation of 1.5 about the origin
 $Q(-1, 0), R(2, 1), S(2, 0)$

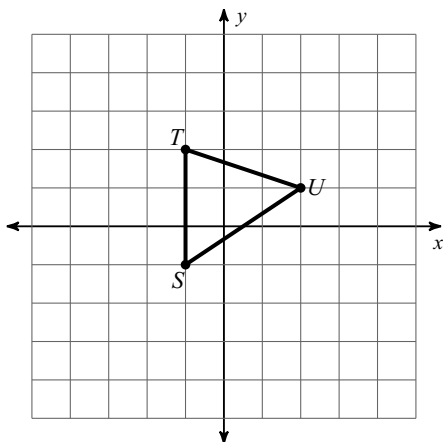


- 12) dilation of $\frac{3}{2}$ about the origin
 $D(-1, 2), E(-1, 3), F(1, 3), G(2, -2)$

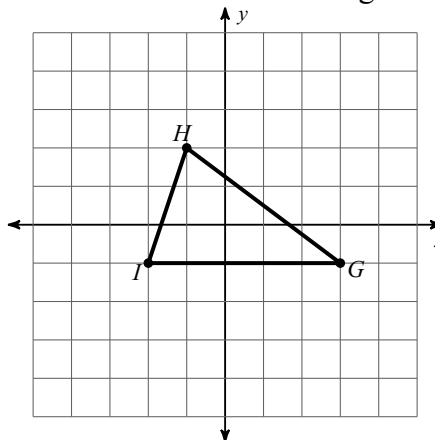


Find the coordinates of the vertices of each figure after the given transformation.

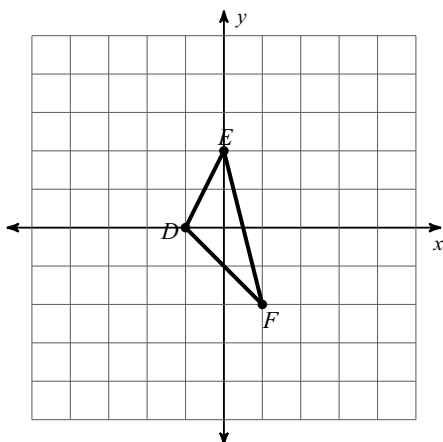
13) dilation of $\frac{3}{2}$ about the origin



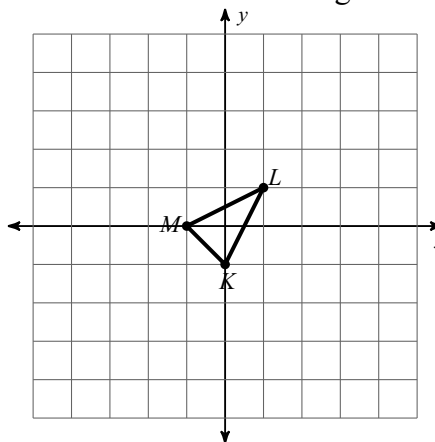
14) dilation of 1.5 about the origin



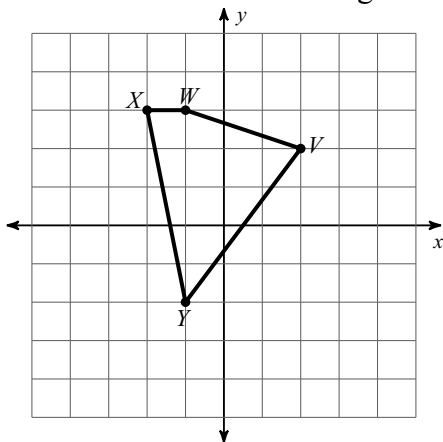
15) dilation of $\frac{5}{2}$ about the origin



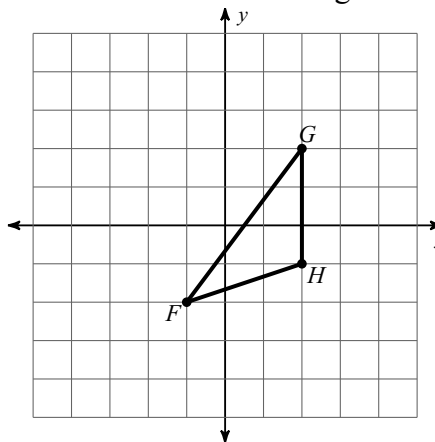
16) dilation of 5 about the origin



17) dilation of 1.5 about the origin



18) dilation of 2 about the origin



19) dilation of 1.5 about the origin
 $L(-1, -1), K(0, 3), J(2, -2)$

20) dilation of 1.5 about the origin
 $J(-1, 0), K(2, 2), L(0, -1)$

21) dilation of 2.5 about the origin
 $F(0, -1), G(0, 1), H(1, 1)$

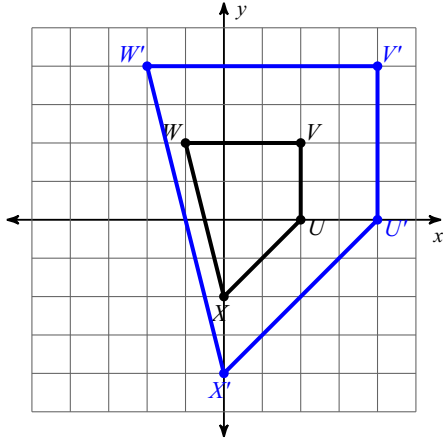
22) dilation of $\frac{1}{4}$ about the origin
 $S(-1, -2), T(-2, 2), U(2, -1)$

23) dilation of $\frac{1}{2}$ about the origin
 $W(-2, 0), V(2, 2), U(2, -2)$

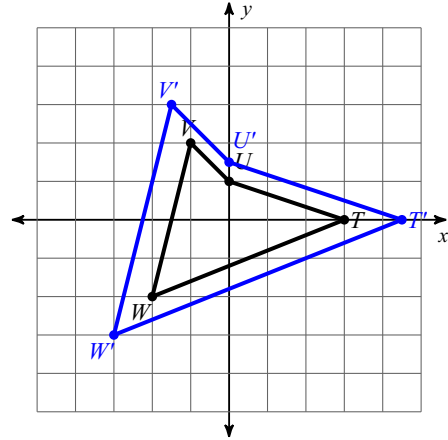
24) dilation of 1.5 about the origin
 $H(0, -3), I(-1, 2), J(1, 3), K(2, 0)$

Write a rule to describe each transformation.

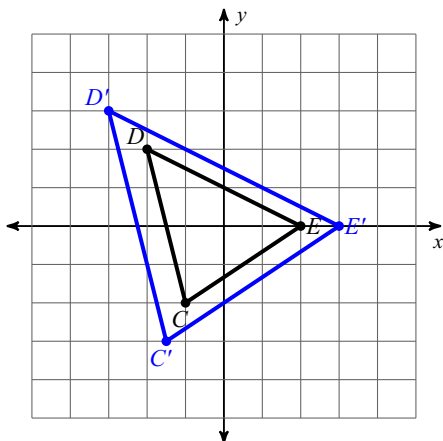
25)



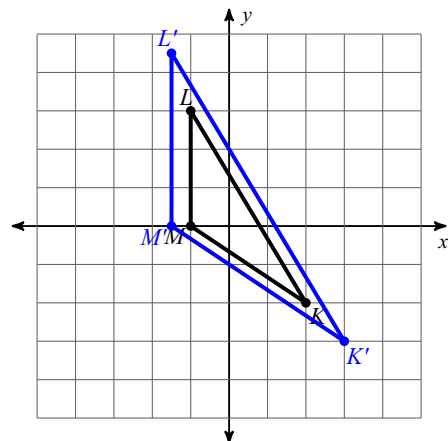
26)



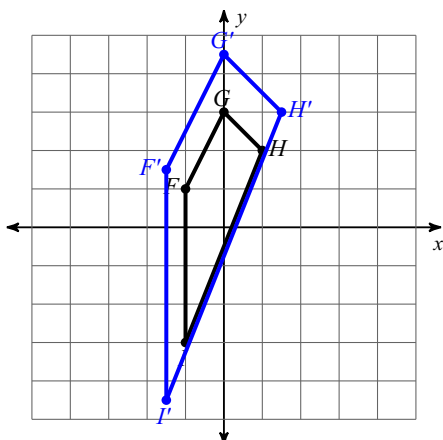
27)



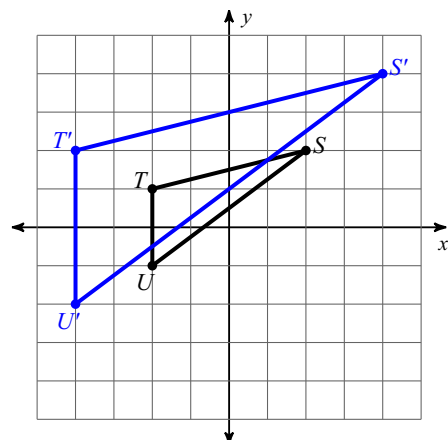
28)



29)



30)



31) $X(-1, -1), W(-1, 1), V(1, 1)$

to

$X'(-4.5, -4.5), W'(-4.5, 4.5), V'(4.5, 4.5)$

32) $J(-2, 1), K(-2, 2), L(2, -1), M(1, -2)$

to

$J'(-5, 2.5), K'(-5, 5), L'(5, -2.5), M'(2.5, -5)$

33) $H(-1, -2), G(1, 2), F(2, -1)$

to

$H'(-1.5, -3), G'(1.5, 3), F'(3, -1.5)$

35) $T(-1, -1), S(0, 2), R(2, 1)$

to

$T'(-2.5, -2.5), S'(0, 5), R'(5, 2.5)$

34) $T(-1, 0), U(2, 1), V(2, 0)$

to

$T'(-2.5, 0), U'(5, 2.5), V'(5, 0)$

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

to

$H'(-1.5, 1.5), G'(0, 4.5), F'(3, 3), E'(0, -3)$