Geometry Name_____

Dilations

Date_____ Period____

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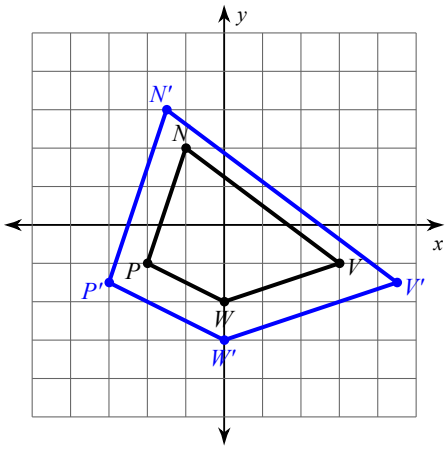
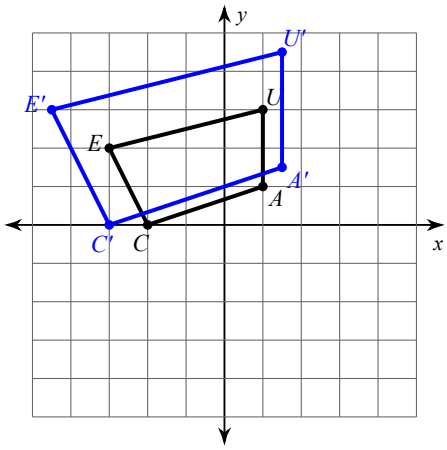
Write a rule to describe each transformation.

1)



2)



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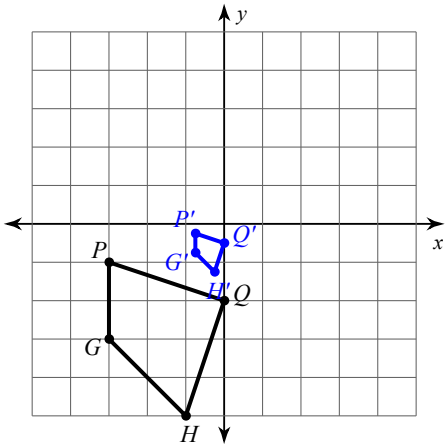
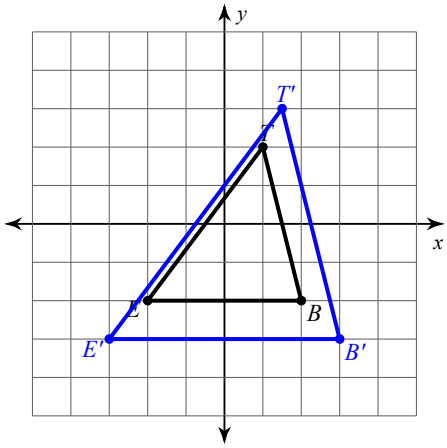


4)



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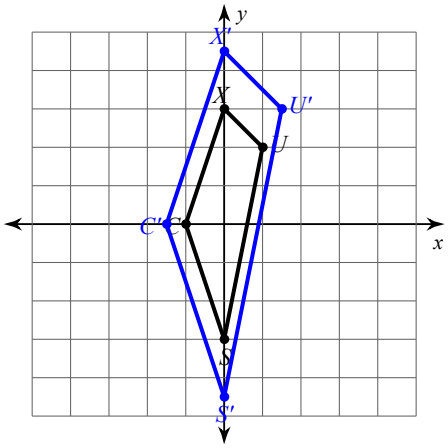
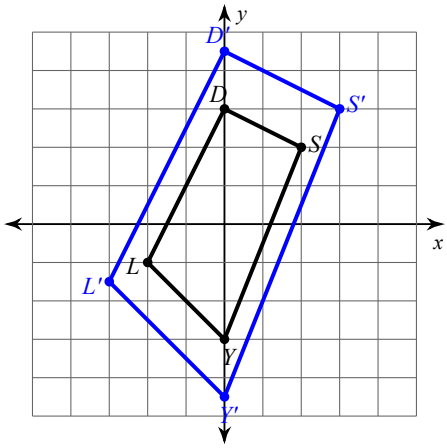


6)



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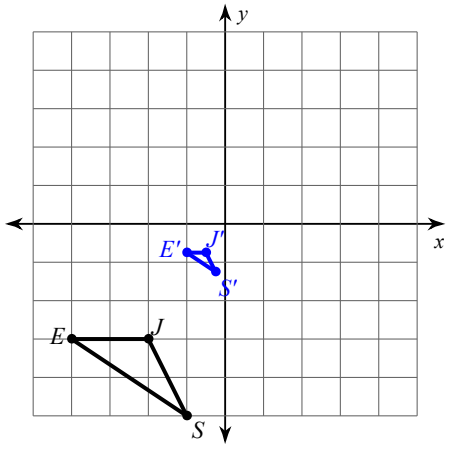
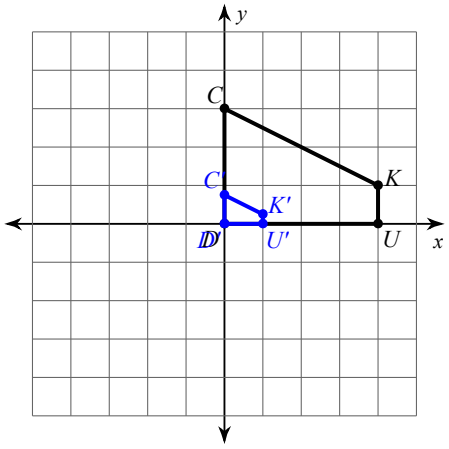
7)



8)



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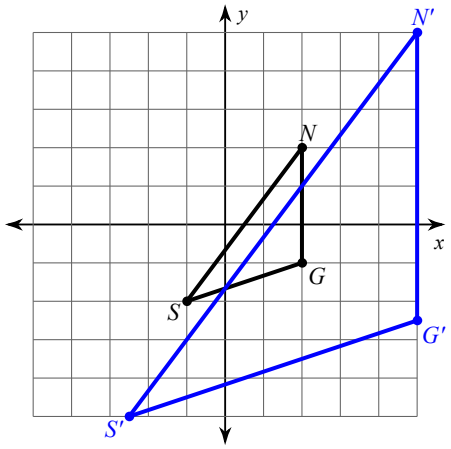

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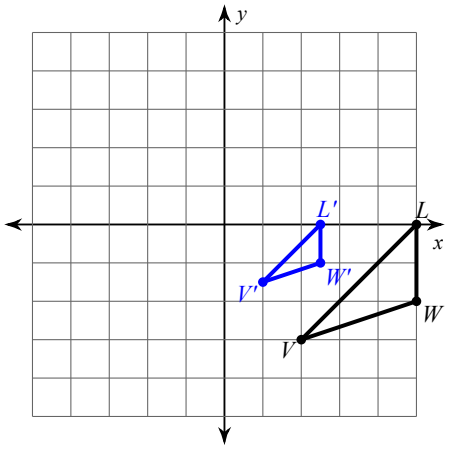
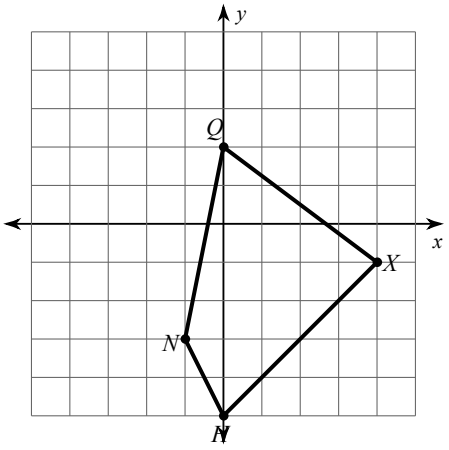
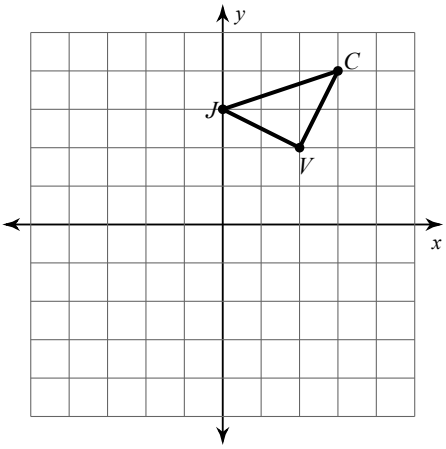


Graph the image of the figure using the transformation given.

11) dilation of 0.5



12) dilation of $\frac{1}{4}$



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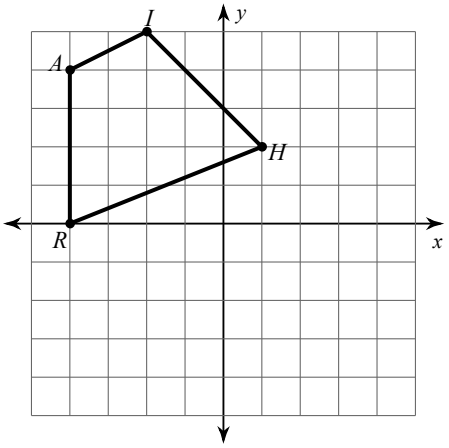
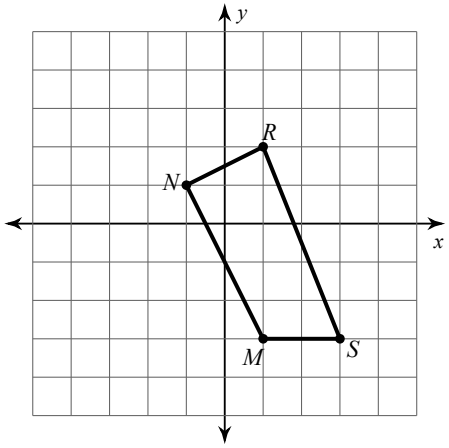
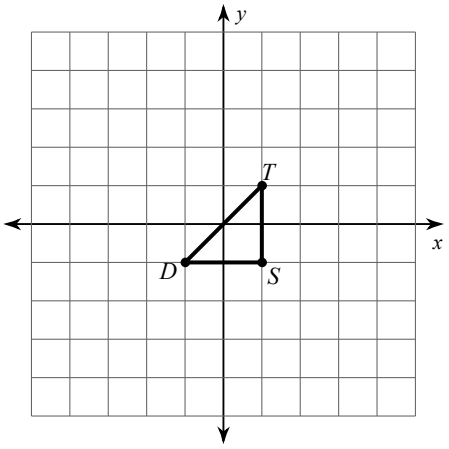
13) dilation of 0.5



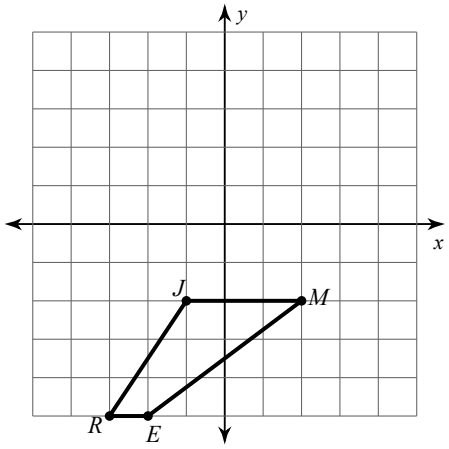
14) dilation of 1.5



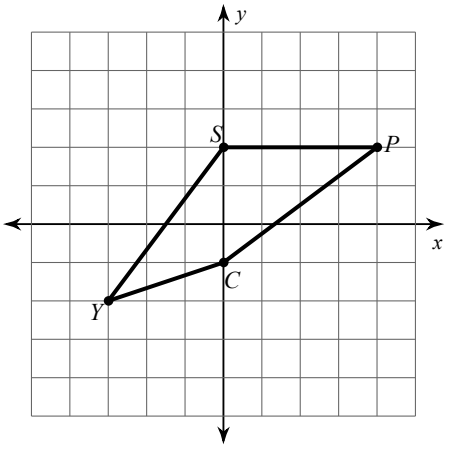
15) dilation of 2.5



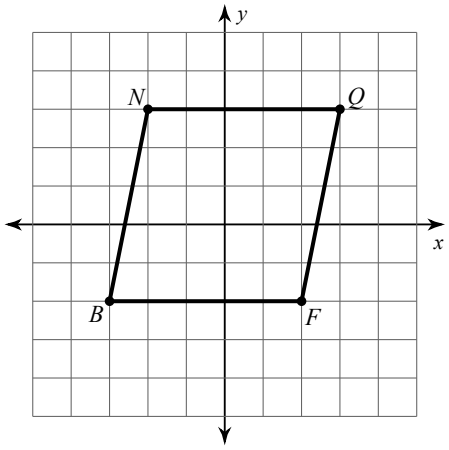
16) dilation of 0.5



17) dilation of $\frac{1}{4}$



18) dilation of 1.5



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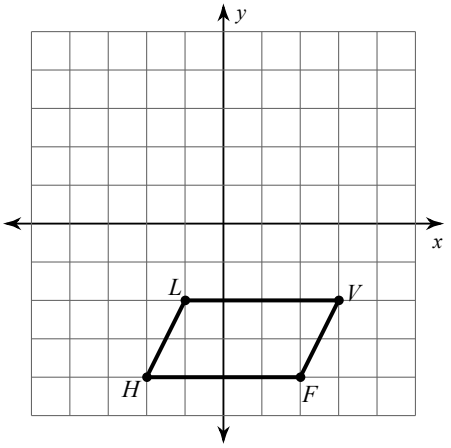
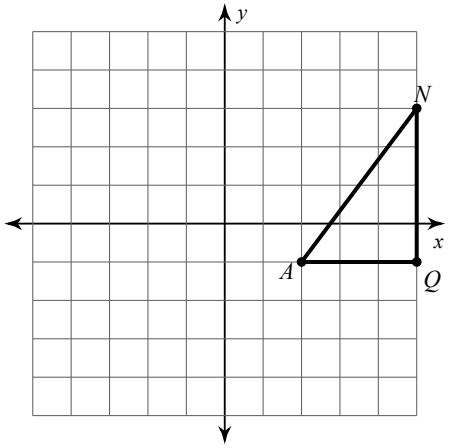
19) dilation of 0.5



20) dilation of 0.25



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

21) dilation of 4
$N(0, 0), K(1, 1), I(1, 0)$

22) dilation of 1.5
$V(-2, -2), I(1, 2), F(2, 0), A(2, -2)$

23) dilation of $\frac{1}{2}$
$U(3, 2), C(4, 4), E(5, 2)$

24) dilation of $\frac{1}{2}$
$X(-3, 3), E(-1, 4), T(-3, 1)$

25) dilation of $\frac{1}{4}$
$W(-4, -5), X(-5, -1), T(-3, 0)$

26) dilation of 2
$H(-1, -2), A(-2, 2), W(2, 2)$

27) dilation of $\frac{1}{2}$
$V(-3, 2), U(1, 5), E(0, 2)$

28) dilation of 1.5
$Q(-3, -3), M(0, -1), H(1, -3)$

29) dilation of $\frac{1}{4}$
$L(-5, -3), V(-5, -1), X(-1, -3)$

30) dilation of $\frac{5}{2}$
$C(-1, -2), V(-2, 2), N(2, 0)$

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