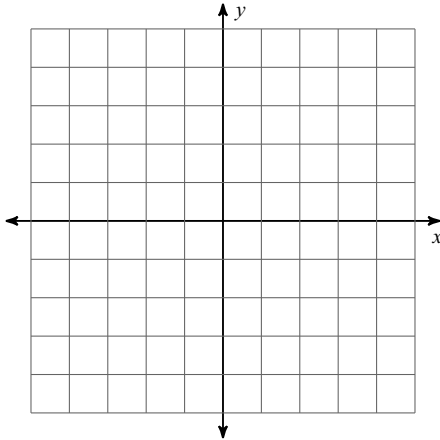


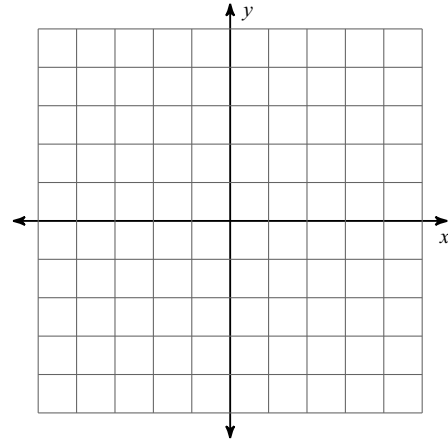
Scale Factors

Graph the image of the figure using the transformation given and write the new ordered pairs

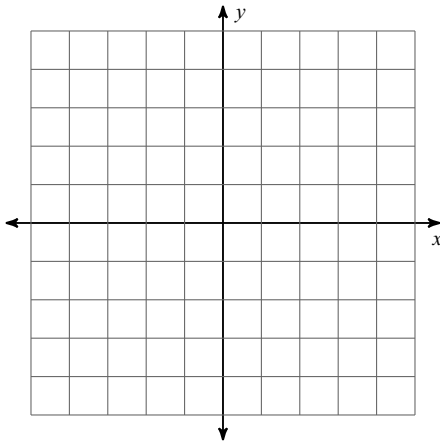
- 1) dilation of 2
 $S(0, -2), T(-1, 2), U(2, 1)$



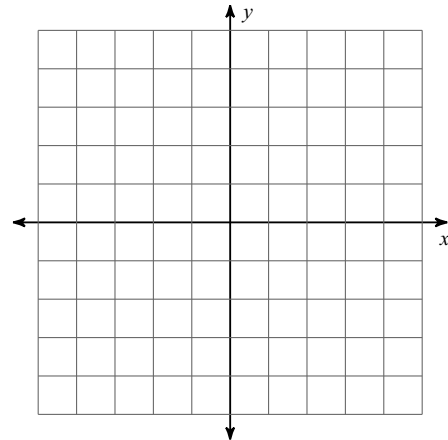
- 2) dilation of 0.5
 $F(1, -4), G(3, -1), H(4, -2), I(4, -4)$



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

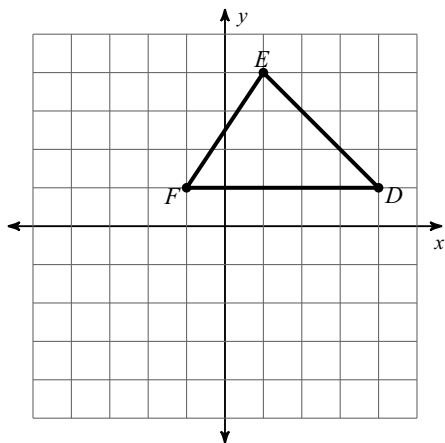


- 4) dilation of 0.25
 $T(-1, -4), U(-1, -3), V(3, -2), W(3, -4)$

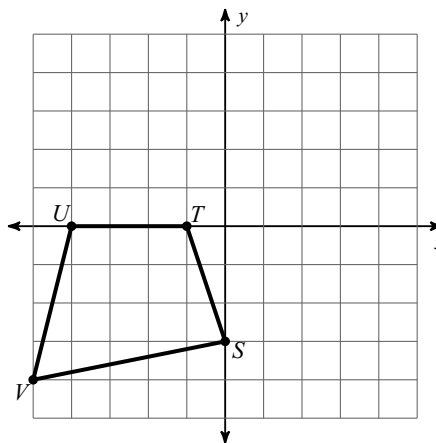


Given the graph and dilation, find the new image and write the ordered pairs.

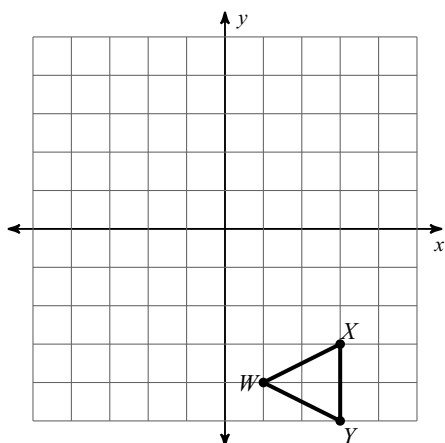
5) dilation of $\frac{1}{2}$



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



7) dilation of 0.25



What is the scale factor given the ordered pairs to the pre-image and image?

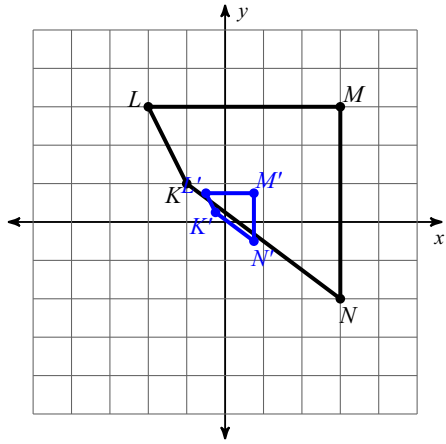
8) $W(0, -2), X(0, 2), Y(1, 1)$
to
 $W'(0, -3), X'(0, 3), Y'(1.5, 1.5)$

9) $I(-5, -4), H(-5, -1), G(-3, -3)$
to
 $I'(-2.5, -2), H'(-2.5, -0.5), G'(-1.5, -1.5)$

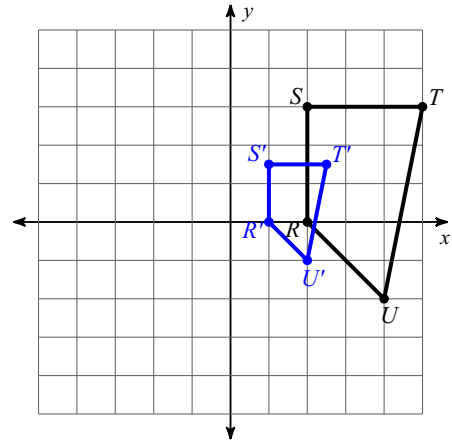
10) $Q(0, -1), R(1, 1), S(1, -1)$
to
 $Q'(0, -2), R'(2, 2), S'(2, -2)$

What is the scale factor given the pre-image and image below?

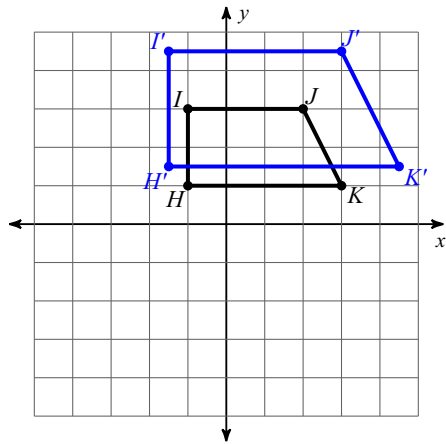
11)



12)

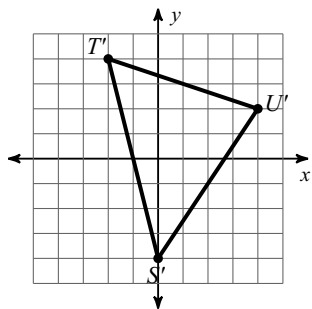


13)

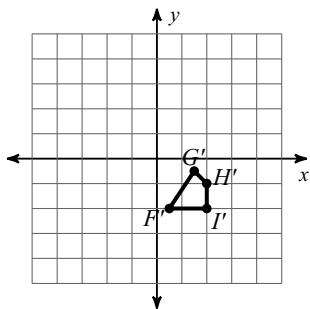


Answers to Scale Factors (ID: 1)

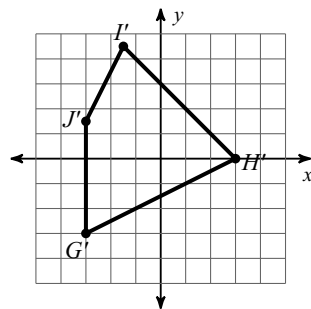
1)



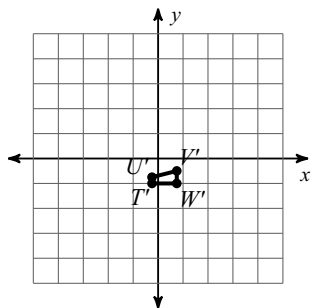
2)



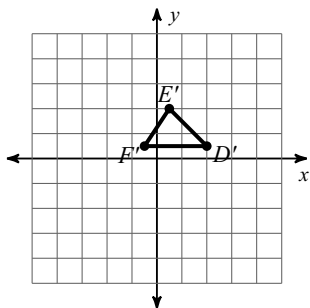
3)



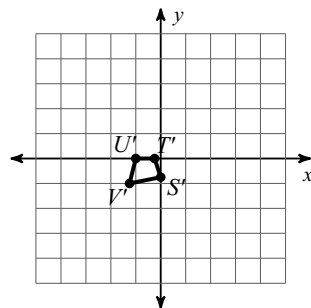
4)



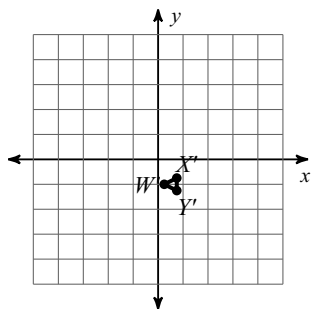
5)



6)



7)



8) dilation of 1.5

9) dilation of 0.5

10) dilation of 2

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

12) dilation of 0.5

13) dilation of 1.5