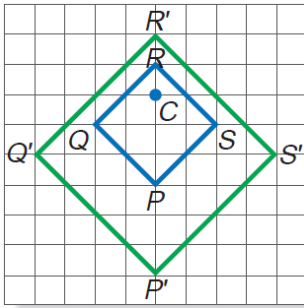


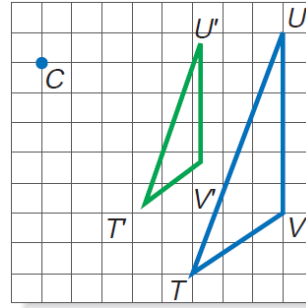
# 4.2.D2 – DILATIONS

Determine the scale factor for each dilation with center of dilation  $C$ .

1.  $k =$  \_\_\_\_\_

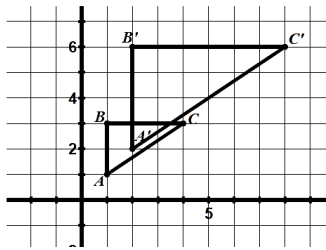


2.  $k =$  \_\_\_\_\_

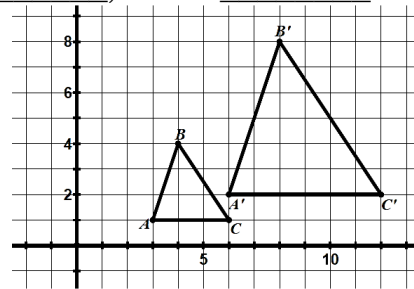


Determine the scale factor AND the center of dilation.

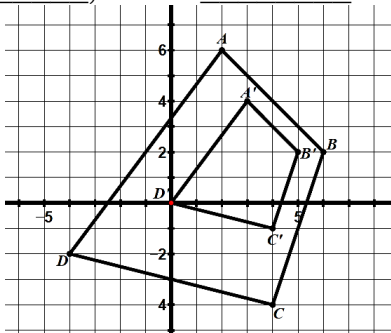
3.  $k =$  \_\_\_\_\_, center: \_\_\_\_\_



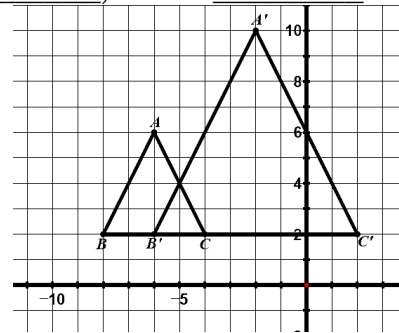
4.  $k =$  \_\_\_\_\_, center: \_\_\_\_\_



5.  $k =$  \_\_\_\_\_, center: \_\_\_\_\_

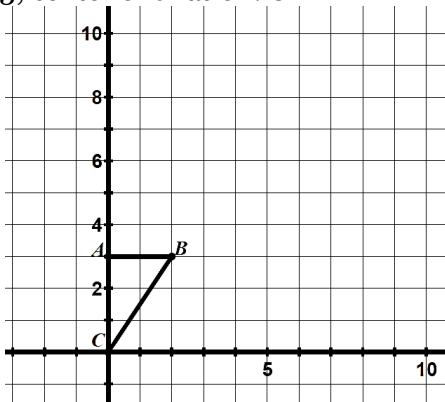


6.  $k =$  \_\_\_\_\_, center: \_\_\_\_\_

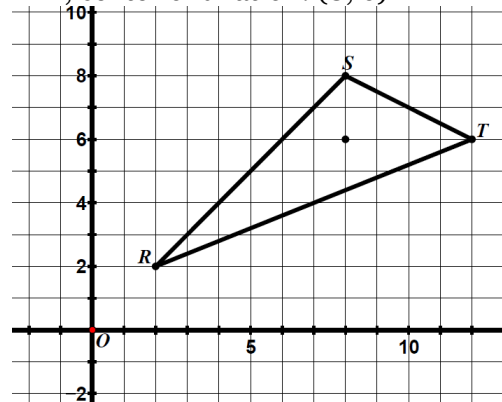


Graph and properly label the vertices of the image of each figure after a dilation with the given center and scale factor.

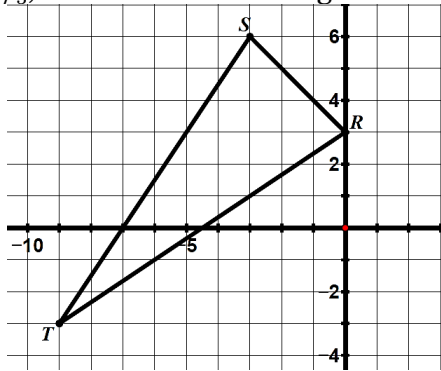
7.  $k = 3$ ; center of dilation:  $C$



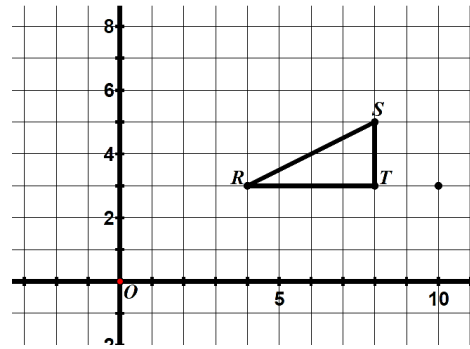
8.  $k = 1/2$ ; center of dilation:  $(8, 6)$



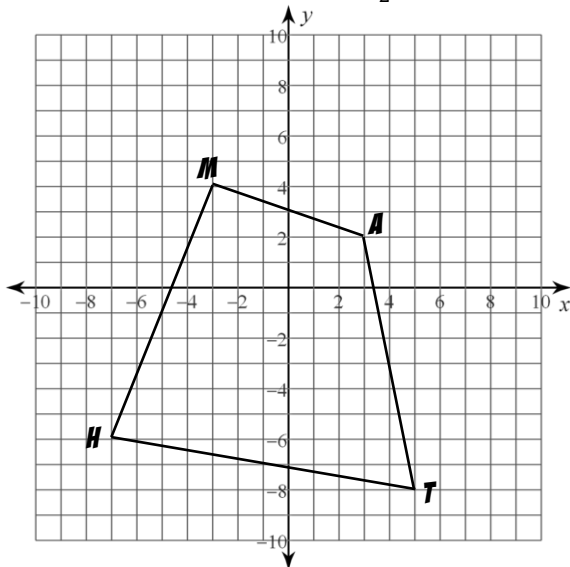
9.  $k = 1/3$ ; center of dilation: origin



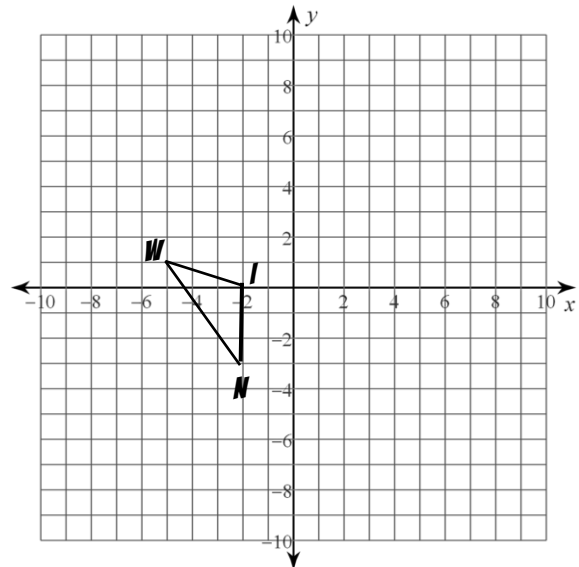
10.  $k = 2$ ; center of dilation (10, 3)



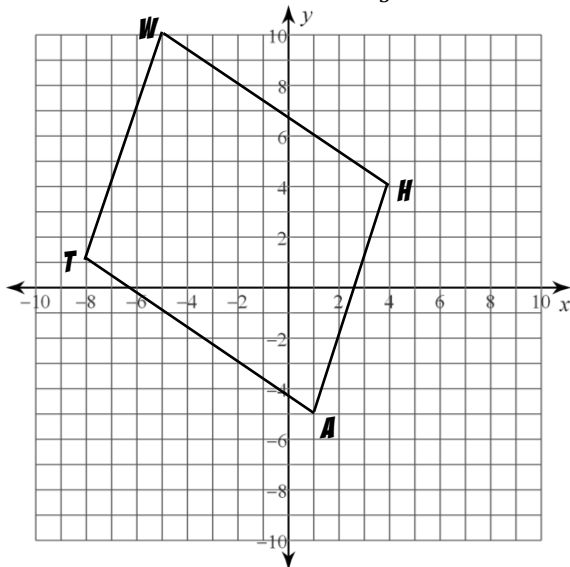
11. Dilate  $w$ /center  $(1, -2)$ ,  $k = 1/2$



12. Dilate  $w$ /center  $(-3, -1)$ ,  $k = 2$



13. Dilate  $w$ /center  $(-2, 1)$ ,  $k = 2/3$



14. Dilate  $w$ /center  $(-1, 1)$ ,  $k = 5/2$

