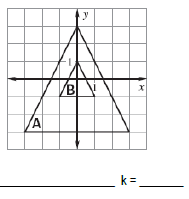
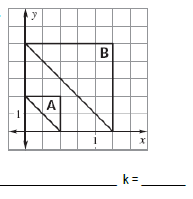
10.1 Dilations

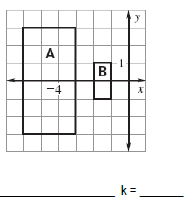
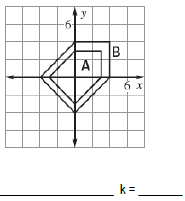
NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ HOUR: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

State whether a dilation with the given scale factor is a reduction or an enlargement.

1. k = 3 2. k = 3. k = 4. k = 0.93

Determine the dilation from Figure A to Figure B is a reduction or an enlargement. Then find its scale factor.

5. 6.



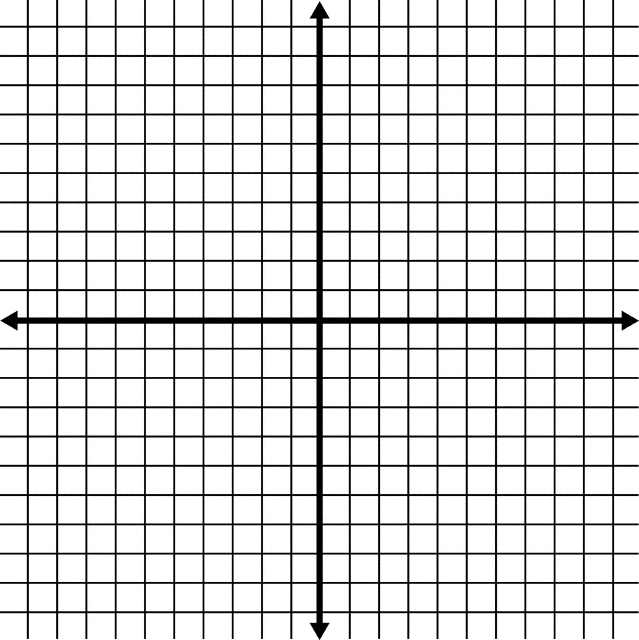
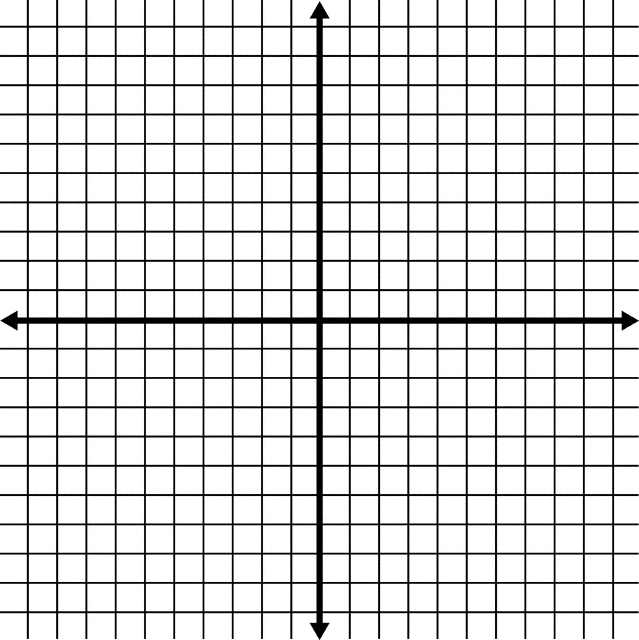
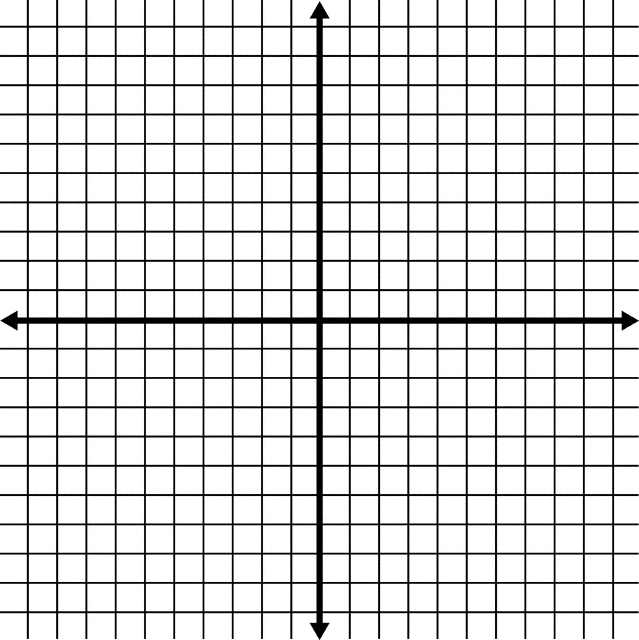
7. 8.

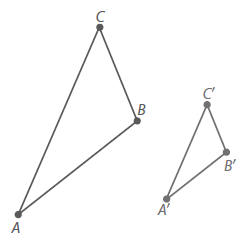
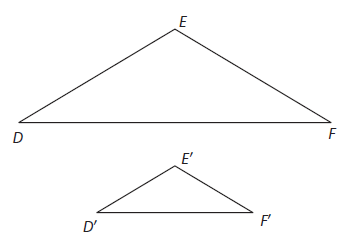
Point T is a vertex of a triangle. Point M is the image of T after the dilation. Find the scale factor k of the dilation.

9. T (2 , 7) and M (6 , 21) 10. T (6 , 9) and M (2 , 3) 11. T (-4 , -8) and M (-28 , -56)

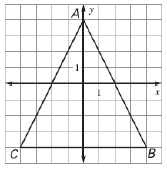
A line segment has the given endpoints. Use the scale factor to write the ordered pair after the dilation.

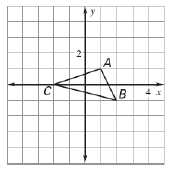
12. P(1,1), T(3,1) and k = 2 13. R(4,4), D(8,12), and k = 14. K(0,0), B(-3,2), and k = 5

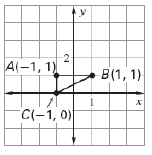
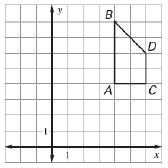


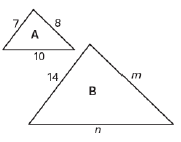
Determine the center of dilation for the following:

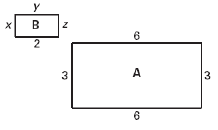
15. 16.

Draw the dilation of the figure using the given scale factor:

17. k = 2 18. k =

19. k = 20. k = 3  

Determine whether the dilation from Figure A to Figure B is a reduction or an enlargement. Then, find the scale factor and the other values for the side lengths.

21. 22.