Chapter 8 TEST - Geometry

Name:_____ PT

Practice

Write the letter that best answers the question or completes the statement.

Find the image of each point transformed by the given dilation.

1. (-3 , 2) ; D(x , y) = (2x , 2y)
   a) b)
   c) d)

2. (3 , -2) ; D(x , y) = (-1.5x , -1.5y)
   a) b)
   c) d)

Find the image of each point given each scale factor n.

3. (-3 , 2) ; n= -3
   a) b)
   c) d)

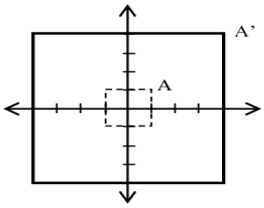
4. (3 , -2) ; n= $\frac{1}{2}$
   a) b)
   c) d)

Given each scale factor n, state whether the image of each dilation is a contraction or expansion.

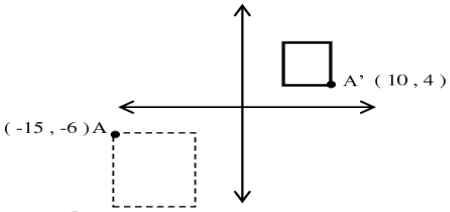
5. n= -5
   a) contraction
   b) expansion

6. n= $\frac{5}{2}$
   a) contraction
   b) expansion

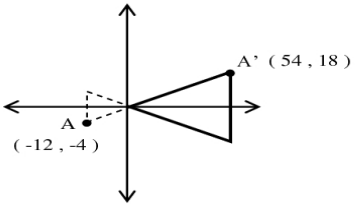
The dash figures represent the preimages of dilations, and the **SOLID FIGURES ARE THE IMAGES**.
Find the scale factor of each dilation.



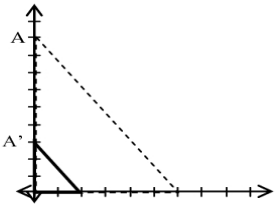
7.
   a) b)
   c) d)



8.
   a) b)
   c) d)



9.
   a) b)
   c) d)



10.
   a) b)
   c) d)