

Name: \_\_\_\_\_

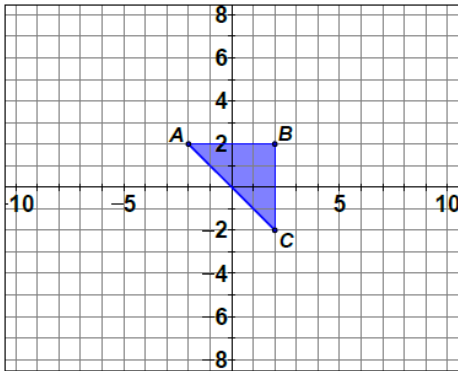
### DAY 1 HOMEWORK - 9.7/7.2 DILATION

☞ Identify and draw translations. (9.7)

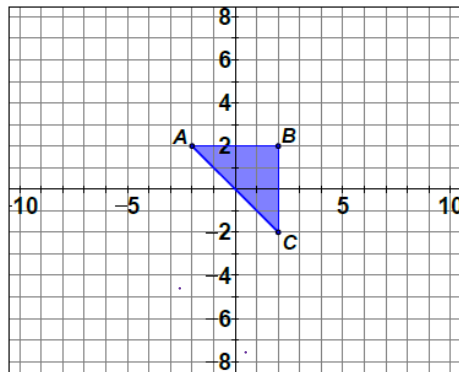
☞ Draw and describe similarity transformations in the coordinate plane. (7.2)

**Directions:** For #1-4, dilate  $\triangle ABC$  from the given center with the given scale factor.

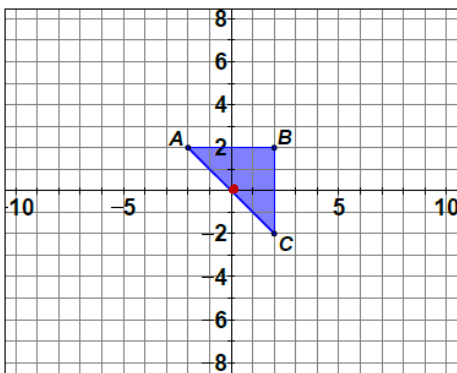
1. Scale Factor of 2; Center:  $(-2, -2)$



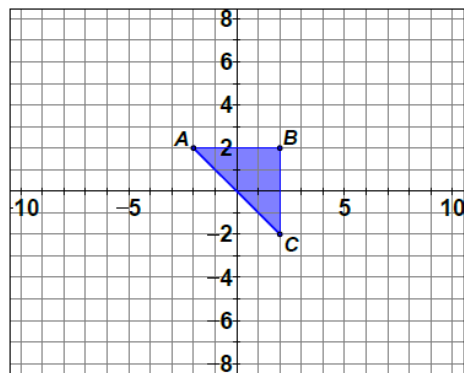
2. Scale Factor of  $\frac{1}{2}$ ; Center  $(-2, 6)$



3. Scale Factor of 3; Center:  $(0, 0)$



4. Scale Factor of  $-\frac{1}{2}$ ; Center:  $(2, -4)$



5. A blueprint shows a reduction of a room using a scale factor of  $\frac{1}{50}$ . In the blueprint, the room's length is 8 in., and its width is 6 in. Find the perimeter of the room.