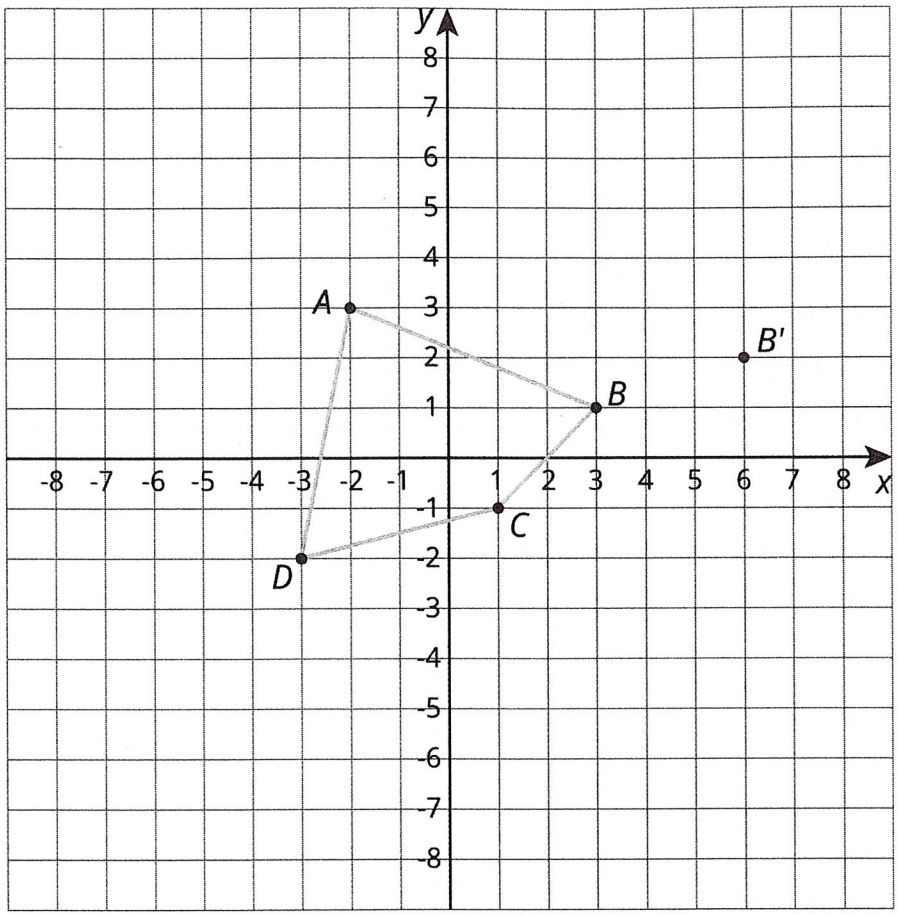
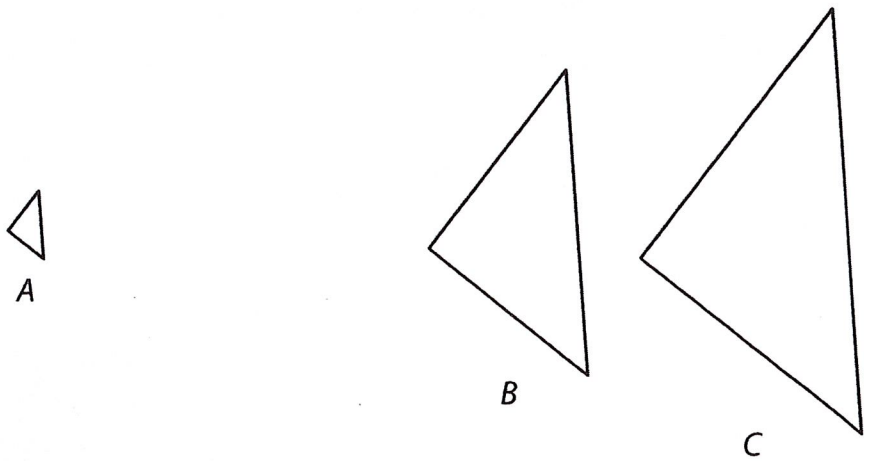
Unit 2 Name _____ Due Date _____ Hour _____

Lesson 5 Practice Problems

1. Quadrilateral $ABCD$ is dilated with center $(0, 0)$, taking B to B'. Draw $A'B'C'D'$.



2. Triangles B and C have been built by dilating Triangle A.



a. Find the center of dilation.

b. Triangle B is a dilation of A with approximately what scale factor?

c. Triangle A is a dilation of B with approximately what scale factor?

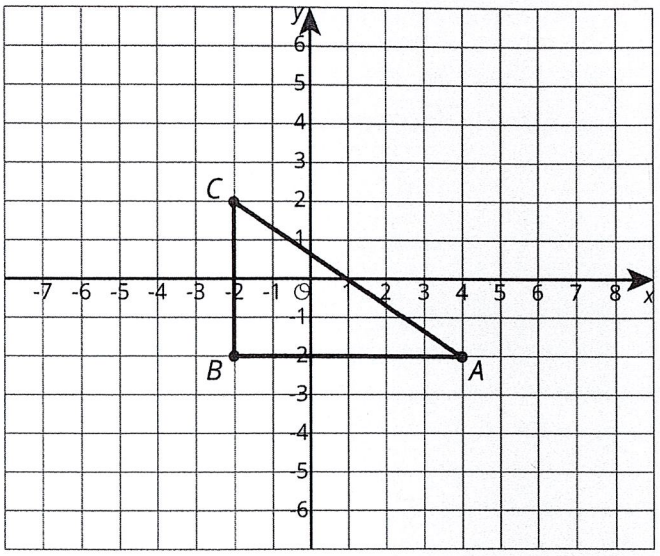
d. Triangle B is a dilation of C with approximately what scale factor?

3. Here is a triangle.

a. Draw the dilation of triangle ABC, with center $(0, 0)$, and scale factor 2. Label this triangle $A'B'C'$.

b. Draw the dilation of triangle ABC, with center $(0, 0)$, and scale factor $\frac{1}{2}$. Label this triangle $A''B''C''$.

c. Is $A''B''C''$ a dilation of triangle $A'B'C'$? If yes, what are the center of dilation and the scale factor?



4. Triangle ABC is a right triangle, and the measure of angle A is $28°$. What are the measures of the other two angles?