 Name: _____

Past due on: _____ Period: _____

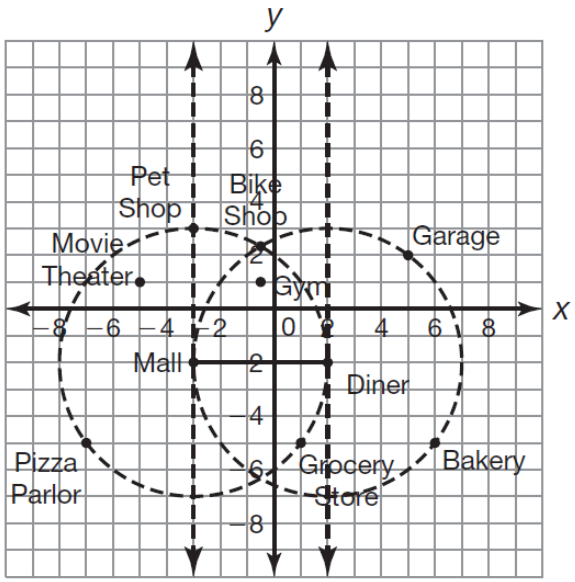
5.1.D1 – Classifying Triangles on the Coordinate Plane

The grid shown is a map of Stoneville and the locations of several businesses in the town. A line segment has been drawn between the locations of the mall and the diner. Using this line segment as one side of a triangle, determine the business (or businesses) whose location, when connected with the line segment, would result in each of the following types of triangles.

1. An isosceles triangle

2. An acute triangle

3. A scalene triangle



4. A right triangle

5. An obtuse triangle

Use the distance formula to determine the distance between the following locations. Round your answer to the nearest tenth.

6. The movie theatre and the pizza parlor

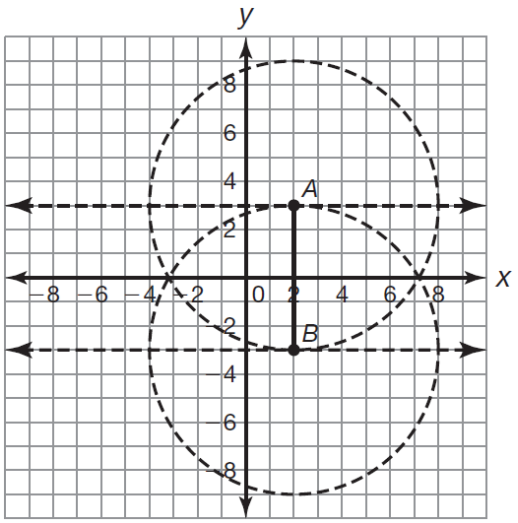
7. The diner and the garage

8. The pet shop and the grocery store

9. The mall and the bakery

Determine the location of point C such that △ABC has each given characteristic. The graph shows line segment AB and circles A and B.

10. △ABC is a right triangle



11. △ABC is an acute triangle

12. △ABC is an obtuse triangle

13. △ABC is an equilateral triangle

14. △ABC is an isosceles triangle

15. △ABC is a scalene triangle