

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

## CC Geometry Homework

## The Distance Formula

- 1) What is the length of the line segment whose endpoints are (1,1) and (3,-3)?
- A)  $4\sqrt{2}$                       C) 10  
B)  $2\sqrt{5}$                       D)  $2\sqrt{2}$
- 2) If the coordinates of A are (3,4) and the coordinates of B are (-3,-4), then the length of  $\overline{AB}$  is
- A) 100                              C) 10  
B) 20                                D) 5
- 3) If the endpoints of the diameter of a circle are (3,1) and (6,5), find the length of the diameter.
- 4) The center of a circle is at (1,3). If the circle passes through the point (4,7), find the length of the radius of the circle.
- 5) Determine whether the triangle with vertices A(-3,3), B(6,6), and C(3,0) is isosceles, equilateral, or scalene. [*Show all work.*]

1) B      2) C

3) 5

4) 5

5) Isosceles