

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

Date:

Course: \_\_\_\_\_

Nyack College

College Mathematics

QUIZ (CHAPTER 8.1 to 8.2)

**Directions: Solve each equation. Make sure to SHOW ALL WORK.**

**A. Directions: Find the distance between the two points and the coordinates of the midpoint of the line segment formed by the two points.**

(1)  $(3, 4)$  and  $(-2, 1)$

(2)  $(3, 0)$  and  $(5, 1)$

(3)  $(-3, 5)$  and  $(-1, 1)$

(4)  $(0, 4)$  and  $(-3, 12)$

(5)  $(8, 4)$  and  $(-7, 11)$

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**B. Directions: Find the center and radius for each circle. SHOW ALL WORK.**

(6)  $(x - 4)^2 + (y - 3)^2 = 25$

(7)  $(x + 3)^2 + (y - 2)^2 = 49$

(8)  $(x + 3)^2 + (y + 7)^2 = 169$

(9)  $x^2 + y^2 + 4x + 6y + 9 = 0$

(10)  $x^2 + y^2 - 2x + 4y - 4 = 0$

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**C. Directions: For each equation, find the x-intercept and y-intercept. SHOW ALL WORK.**

(11)  $3x + 2y = 12$

(12)  $5x + 6y = 15$

(13)  $x + y = 1$

(14)  $y = 3x + 9$

(15)  $(y - 3) = 12(x + 2)$

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**D. Directions: Write the equation for line (in any form) for the following points (SHOW ALL WORK):**

(16)  $(0, 4)$  and  $(-3, 12)$

(17)  $(-2, 4)$  and  $(-1, 1)$

(18)  $(2, 3)$  and  $(-4, -5)$

(19)  $(1, 6)$  and  $(1, 8)$

(20)  $(-4, 4)$  and  $(-3, 3)$