Quiz 2 – Sample	name:	
	section:	
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Part One. Circle the correct answer.

- 1) Which of the following is symmetric with respect to the x axis?
- A) $y = x^{2} + 2$ B) 2xy = 5 C) $4x y^{2} = 1$ D) x = 4 E) y = |x| + 6
- 2) Which of the following lines is parallel to the line with equation 3x 2y = 11?
- A) 2x + 3y = 9 B) 2x + 3y = 9 C) 3x + 2y = 9 D) y = 3x + 15 E) 6x 4y = 9
- 3) If $f(x) = -4x^2$, then what is $f(-3m^3)$?
- A) 12 m^5 B) 36 m^5 C) 36 m^6 D) 36 m^6 E) 24 m^6
- 4) What is the slope of the line containing (-4, 15) and (8,9)?
 - A) 2 B) -2 C) $-\frac{1}{2}$ D) $\frac{1}{2}$ E) $-\frac{3}{2}$

5) What is the center of the circle with equation $x^2 + y^2 + 46y - 62x - 911 = 0$?

- A) (-23,31) B) (31,-23) C) (-31,23) D) (23,-31) E) (62,-46)
- 6) Find the distance between the two points ($15\frac{1}{2}$, -19) and ($-\frac{1}{2}$, 44)?
- A) 65 B) $\sqrt{4194}$ C) 30 D) $\sqrt{881}$ E) 54

7) Which of the following lines has zero slope?

A) x = 9 B) y = x C) y = -6 D) x - y = 0 E) 1 - x - y = 0

Part Two. Show your work and place your answer in the box provided.

8) You are given a line segment AB with A = (8, -15) and B is unknown.
If you know that the midpoint is at (-3, 20), then find the coordinates of point B.

9) Find the equation of the line that is perpendicular to the line 8 x + 7 y = 40 and passes through the point (-1,2)

10) If f(x) =
$$-\frac{1}{4}$$
 X - 15, then evaluate $\frac{f(-12) - f(20)}{4}$