

Name: _____

Math 32, Spring 2010, Section 101
Quiz 2

(1) Find equations for the following lines (2 pts each).
Write your answers in $y = mx + b$ form.

(a) The line passing through the points $(4, 8)$ and $(-3, -6)$.

(b) The line that is parallel to $y = -x - 3$ and passes through the point $(0, 4)$.

(2) Determine all real solutions to the following equation. Remember to check for extraneous solutions, if appropriate. (3 points)

$$x^4 - 3x^2 = -2.$$

(3) The center of a circle is the point $(3, 2)$. If the point $(-2, -10)$ is on this circle, find the standard equation of this circle.