CCP **Fall 2011**
Math 151 **Dr. Yun Yoo**

Attendance Quiz 7

Name: _____ Date: _____

1. Find the distance between the points: $(2,-1)$ and $(-10,-6)$.

2. Find an equation of the circle passing through $(-5,2)$ with center $(-2,3)$.

3. (a) Find the slope of the line that passes through $(2,-3)$ and $(-4,-8)$.
(b) Find the slope-intercept form of the line that passes through $(2,-3)$ and $(-4,-8)$.

4. Find an equation of the horizontal line that passes through $(4,3)$.

5. Find an equation of the vertical line that passes through $(5,0)$.

6. Find a slope-intercept form of the line that passes through $(-3,4)$ with slope -2.

7. Find a slope-intercept form of the line that passes through the points $(-1,-2)$ and $(3,2)$.

8. Find a slope-intercept form of the line that passes through the points $(-2,2)$ and is parallel to the line $x-2y-8=0$.

9. Find a point-slope form of the line that passes through the points $(-2,-4)$ and is perpendicular to the line $3x+y-22=0$.

10. Sketch the straight line defined by the linear equation by finding the *x*- and *y*-intercept: $3x+2y=-6$

11. Solve the system by the echelon method (elimination method).

$$-4x-6y=2$$
$$5x+2y=-19$$

12. A server purchased at a cost of $6,000 in 2010 has a scrap value of $3,000 at the end of 6 yr. If the straight-line method of depreciation is used,

(a) Find the rate of depreciation.
(b) Find the linear equation expressing the server's book value at the end of *t* yr.
(c) Sketch the graph of the function of part (b).
(d) Find the server's book value at the end of the third year.