What is the distance formula?   What is the midpoint formula?

What is the equation of a circle?   How do you find the slope between (x_1,y_1) and (x_2,y_2)?

(1-2) Find an equation in slope-intercept form for the line.

1. The line through (3,-1) and is perpendicular to $3x-4y=1$ in slope intercept form.

2. The line through (-2,2) and is parallel to 5x-2y=7 in point slope form.

3. Solve $3x^2-10x-8 \geq 0$

(4-5)State the transformations performed on the basic transformations. Give the domain and range of each function.

4. $f(x)=-(x+3)^2-5$ 5. $f(x)=\ln(-2x)+4$

(6-7)State whether the function is odd, even, or neither.

6. $f(x) = -\sin x + x^5$

7. $f(x) = \dfrac{x^2 + 2}{|x|}$

8. Use the twelve basic functions to answer the following:

a. Which functions are bounded above?

b. Which three functions have no zeros?

c. Which four functions are odd?