

NAME:

DATE:

A2.Q1.BERMEL/LEMBO:

SYSTEMS OF EQUATIONS

(DAY S3)

MASTERY PRACTICE

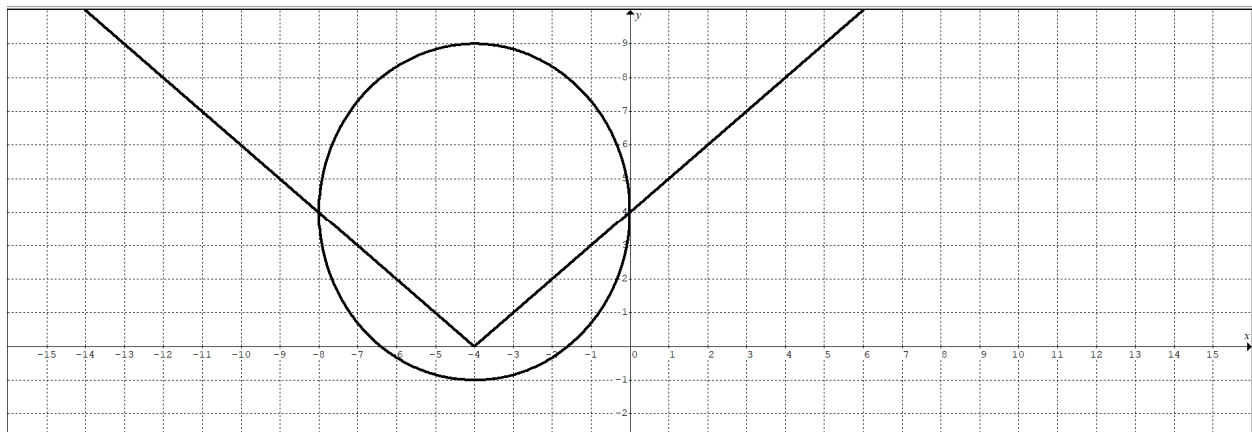
1. Which of the following are solutions to the system of equations? $x^2 - 4 - 4y = 0$
 $y - x = -1$

$(4,3)$ $(2,0)$ $(0,-1)$

Justify your answer by showing the computations.

2. Solve the system of equations using the method of **graphing**. The graph is given below.

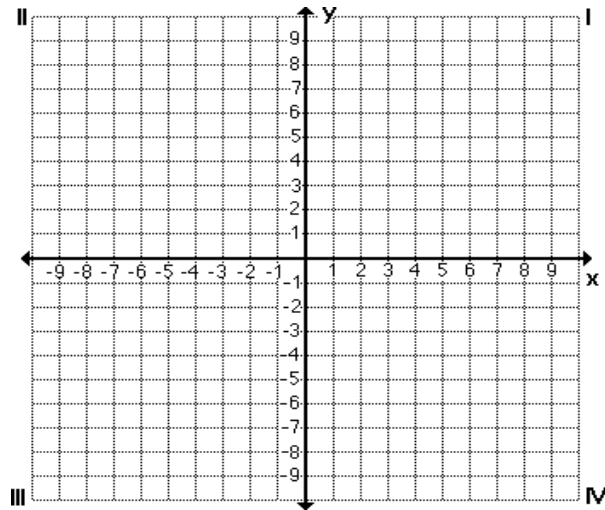
$$y = |x + 4|$$
$$\frac{(x+4)^2}{16} + \frac{(y-4)^2}{25} = 1$$



3. Solve the system of equations using the method of **graphing**..

$$y = 2x + 1$$

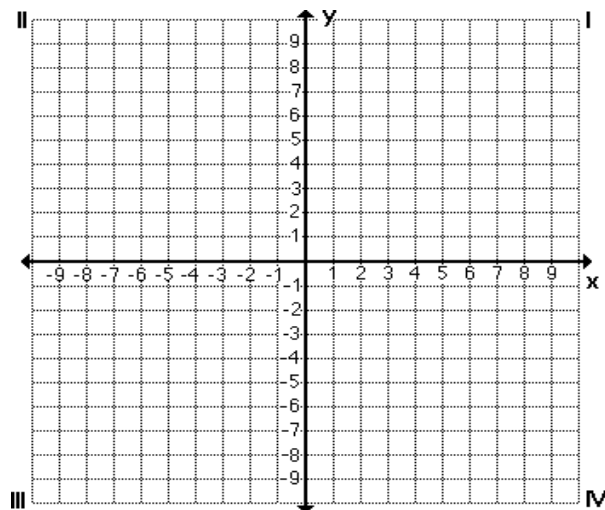
$$y = -\frac{1}{2}x + 6$$



4. Solve the system of equations using the method of **graphing**.

$$y = -\frac{2}{3}x + 4$$

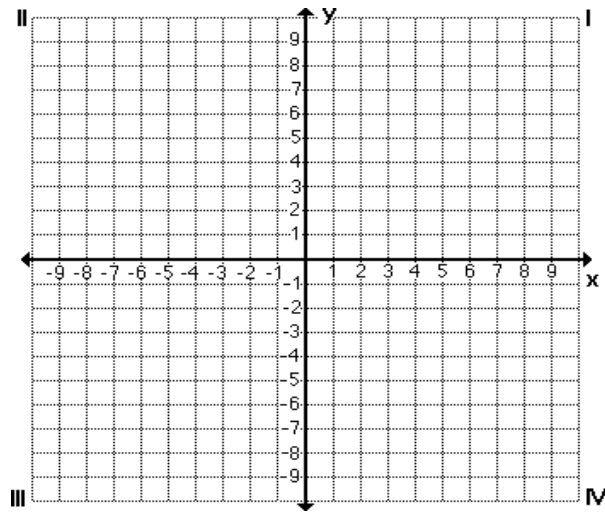
$$y = \frac{4}{3}x - 2$$



5. Solve the system of equations using the method of **graphing**.

$$f(x) = 2x + 4$$

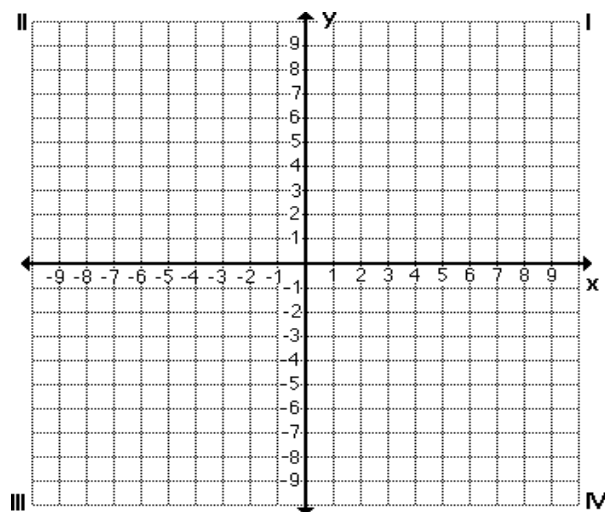
$$g(x) = 4|x + 1| - 4$$



6. Solve the system of equations using the method of **graphing**.

$$y = \frac{1}{2}x - 6$$

$$y = -2|x - 3| + 3$$



A LOOK BACK:

1. (F1) Consider the function: $g(x) = -\frac{1}{3}x - 5$

The Function is considered: Linear or Absolute Value or Quadratic

(Circle the correct Choice)

A. Find $g(6)$

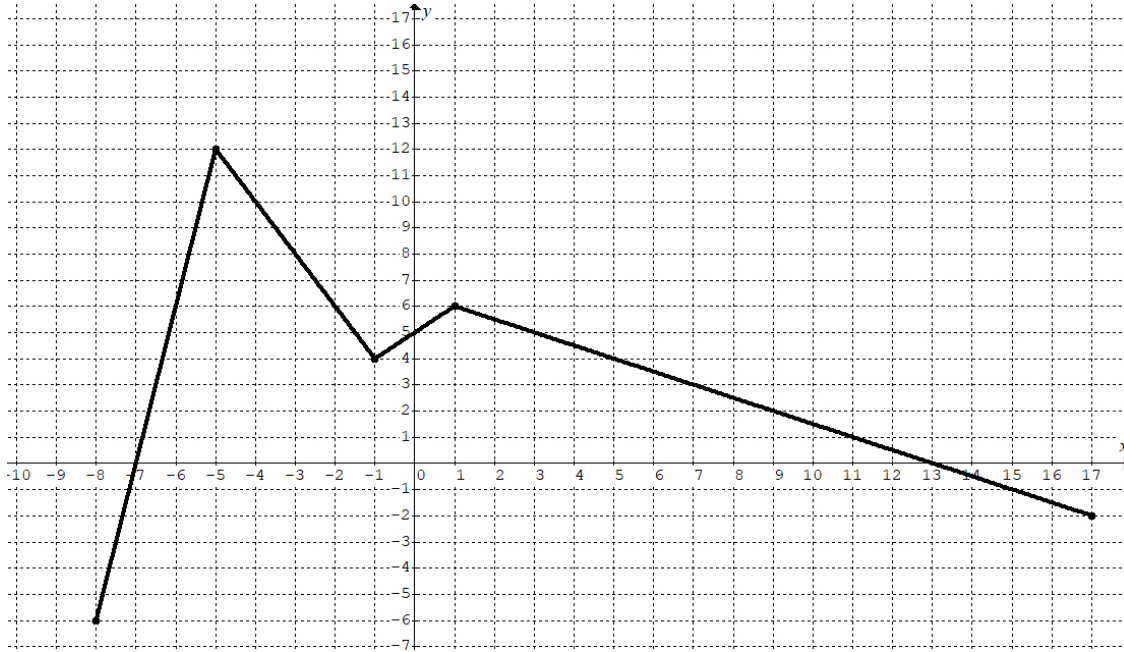
B. Find $g(-9)$

C. Find the “y-intercept” of the function.

D. Is $x = -15$ a zero of the function?

E. Is the function $g(x) = -\frac{1}{3}x - 5$ an increasing or decreasing function? Explain.

2. (F2) Consider the function: $y = f(x)$ with the graph show here.



A. Find $f(-6)$

B. Find $f(3)$

C. Find $f(-4)$

D. Find $f(11)$

E. Find the “y-intercept” of the function

F. What are the zeros of the function?

G. If $f(x) = 6$, what are the three values of x ?