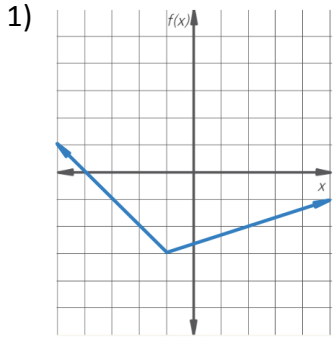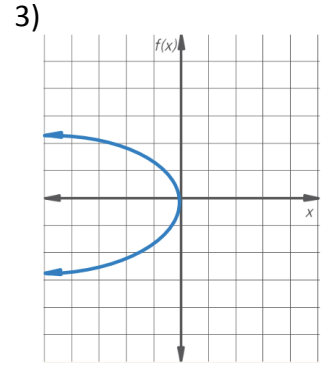**Math 2 Test Rev. #2**

Determine if each is a function. Write yes or no.

1)

2) {(-3,2), (-1, 0), (-1, 1), (0, 1)}

3)

Re-write each equation in standard form (Ax + By = C). Box in final answer.

4) $y = 8 - 5x$

5) $2y + 3 = 4x$

Find the x and y-intercepts. Write answer as an ordered pair.

6) $-4x - 6y = 36$ x-int (,   )   y-int (,   )

Write an equation in slope intercept form given the following. Box in final answer

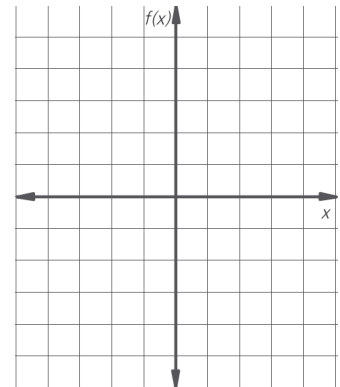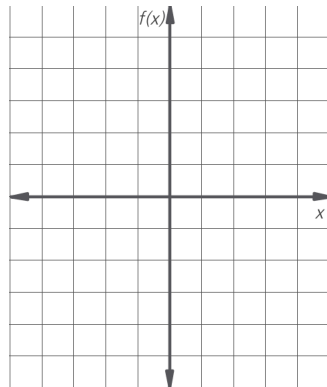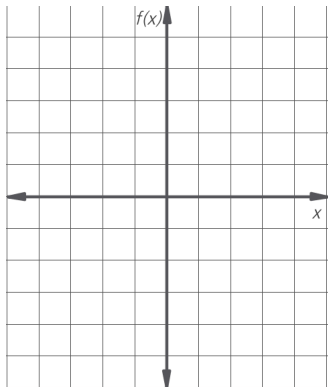7) m = -2, b = 10

8) m = -1/2 (2, 4)

9) (5, -6), (-5, -10)

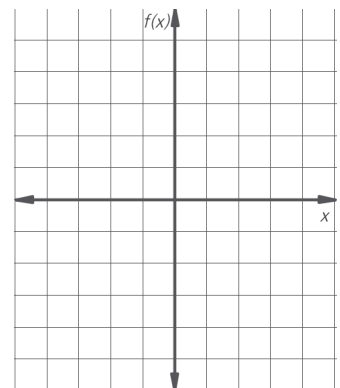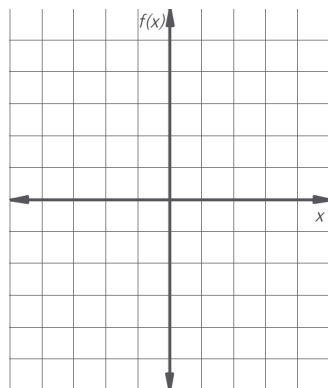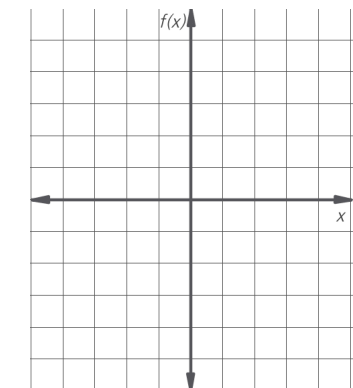**Graph the following.**

10) $y = -x + 5$

11) $2x - 3y = 12$

12) Goes though (3, 0 and is perpendicular to a line with a slope of -1.

13) f(x) = -4

14) Goes through point (2, -3) and has a slope of 4/5.

15) Goes through point (-3, -1) and is Parallel to the line x + y = 5.

16) Find the domain of the relation {(0, 5), (2, 3), (2, 4)}. Then determine whether the relation is a function.

17) Find f(-1) if f(x) = -3x – 5.

18) Which equation is linear?

      a. xy = 60   b. 3x – 2y = 5   c. $y = x^2 – 3x + 1$ d. $y^2 + 1 = x$

19) What is the slope of a line that is perpendicular to the graph 3x + 2y = 15.

20) Write an equation in slope-intercept form for the line that has a slope of -3/2 and passes through the point (0, 15).

20) What is the slope of the line x = -2?

21) Find the slope of the line parallel to 5x – y = 8.