

HOMEWORK: FUNCTION REVIEW

1. $\{(2,4), (7,6), (1,3), (3,2)\}$

Domain: $[1, 7]$ Range: $[2, 6]$ Function? YES**Function Notation:**

2. $f(x) = 2x + 3$ $g(x) = x^2 - 2$

a) $f(-1) = 1$

b) $g(3) = 7$

c) $f(2) + g(-2) = 9$

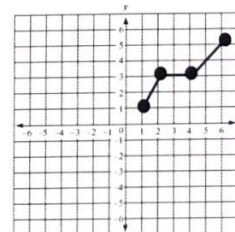
Use the graph below to find the values.

3. What is $f(1)$, $f(5)$, $f(6)$?

$f(1) = 1$

$f(5) = 4$

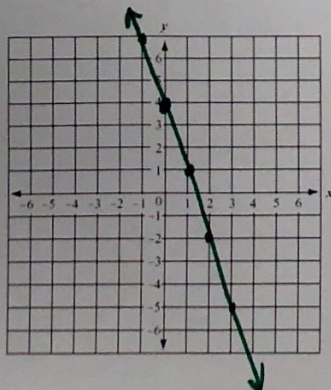
$f(6) = 5$

**Graphing:**

Put into slope-intercept form and then graph the lines. Find the following information:

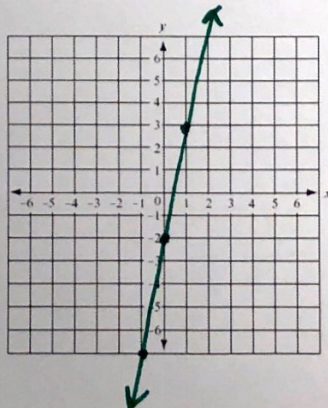
4. $3x + y = 4$

$y = -3x + 4$

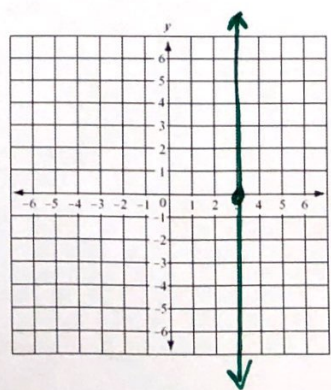
Slope: -3 y-int: $(0, 4)$ Domain: $(-\infty, \infty)$ Range: $(-\infty, \infty)$ Function? YES

5. $4 + 2y = 10x$

$y = 5x - 2$

Slope: 5 y-int: $(0, -2)$ Domain: $(-\infty, \infty)$ Range: $(-\infty, \infty)$ Function? YES

6. $x = 3$

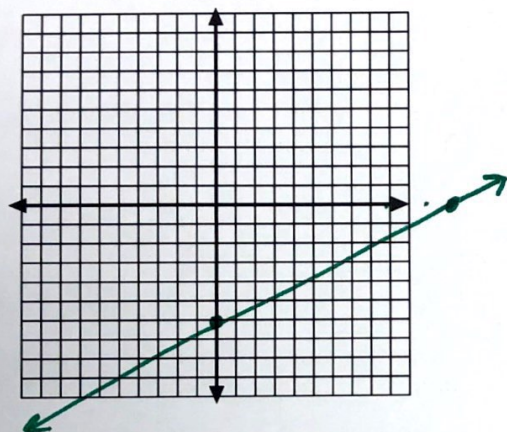
Slope: undefinedy-int: noneDomain: $[3]$ Range: $(-\infty, \infty)$ Function? NO

7. Determine the x- and y-intercepts for each equation, then graph using the intercepts.

a) $x - 2y = 12$

x-intercept (12, 0)

y-intercept (0, -6)



b) $3x - 5y = 9$

x-intercept (3, 0)

y-intercept (0, -9/5)

