

Final Review Graphing and Writing Lines

1. The following two tables come from the equation of a line. Write (in the form $y = mx + b$) the line.

x	y
-2	-2
-1	2
0	6
1	10
2	14

x	y
3	11
5	16
7	21
9	26
11	31

2. Compare the two lines that are given. One is a formula and one is a table. Which has a greater rate of change? **Rate of change** is another way of describing a **slope**.

x	y
0	2
2	4
4	6
6	8

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

3. Find the **slope** between the two points. Leave answers as a fraction in simplest form if necessary.

- a. (1, 2) and (7, 9) b. (-5, 3) and (-1, 0) c. (12, 5) and (9, 8) d. (-3, -7) and (-8, -1)

4. Rewrite the following lines and put into the form $y = mx + b$. State the **slope** and **y-intercept**.

a) $3x + y = 14$

b) $2x - y = 7$

c) $2x + 4y = 12$

d) $6x - 4y = 20$

5. The following are graphs and lines. Use the given **point(s)** and **slope** to write the equation in $y = mx + b$.

