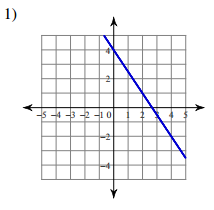
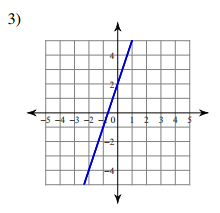
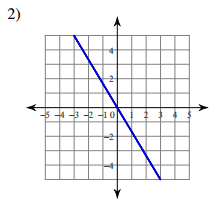
Write the linear equation in slope-intercept form given the following information.

1. The slope is 4 and the y-intercept is 2: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

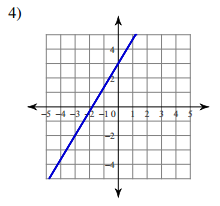
2. m = 5, b = -1: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

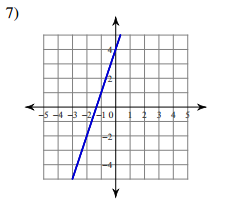
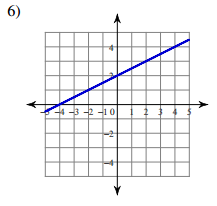
3. slope is ½ and it crosses the y-axis at -3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. rate of change is -3 and the y-intercept is (0, 7) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Identify m and b on the graph and write the liner EQuation in slope-intercept form.

m = \_\_\_\_\_ b = \_\_\_\_\_ m = \_\_\_\_\_ b = \_\_\_\_\_ m = \_\_\_\_\_ b = \_\_\_\_\_

EQ:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ EQ:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ EQ:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



m = \_\_\_\_\_ b = \_\_\_\_\_ m = \_\_\_\_\_ b = \_\_\_\_\_ m = \_\_\_\_\_ b = \_\_\_\_\_

EQ:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ EQ:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ EQ:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Solve for y. Then identify m and b.

1.) 3y = 15x – 12 2.) 5x – 10y = -10 3.) 3y – 21 = 12x

m = \_\_\_\_\_ b = \_\_\_\_\_ m = \_\_\_\_\_ b = \_\_\_\_\_ m = \_\_\_\_\_ b = \_\_\_\_\_

4.) 3y - 2 = – 3x 5.) -2x - 6y = 18 4.) 2x + 5y = 20

m = \_\_\_\_\_ b = \_\_\_\_\_ m = \_\_\_\_\_ b = \_\_\_\_\_ m = \_\_\_\_\_ b = \_\_\_\_\_

7.) 2x + 3y = 3 8.) 5y – 10 = x 9.) 2(4x – 2y) = -4

m = \_\_\_\_\_ b = \_\_\_\_\_ m = \_\_\_\_\_ b = \_\_\_\_\_ m = \_\_\_\_\_ b = \_\_\_\_\_

Answer Bank: (there will be one equation in the answer bank you will not need to use)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Y = -x - 3 | Y = -x + 1 | Y = x + 1 | Y = -x + 2 | Y = 4x + 7 |
| Y = 2x + 1 | Y = 5x - 4 | Y = x + 2 | Y = -x + | Y = -x + 4 |