

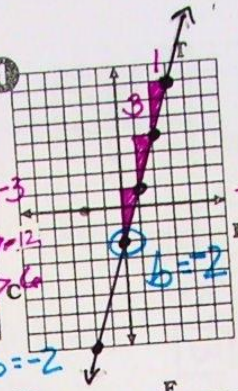
How Does Toggle Toxx Feel Today?

Complete the table of solutions for each equation. Graph the solutions and draw a line through them. If extended, the line will cross a letter. Write this letter in each box containing the exercise number.

6 2 1 8 8 2 4 8 3 7 5 4
W I T H H I S H A N D S

1 $y = 3x + 2$

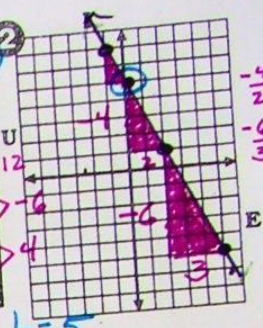
x	y
3	7
2	4
-2	-8
0	-2



$m = \frac{3}{1} = 3$ $b = -2$

2 $y = -2x + 5$

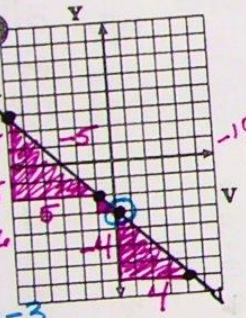
x	y
5	-5
-1	7
2	1
0	5



$m = -\frac{2}{1} = -2$ $b = 5$

3 $y = -x + 3$

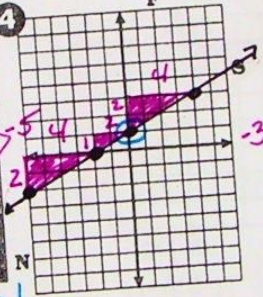
x	y
4	-7
-1	-2
-6	3
0	-3



$m = -1$ $b = -3$

4 $y = \frac{1}{2}x + 1$

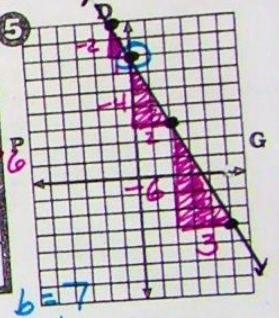
x	y
4	3
-6	-2
-2	0
0	1



$m = \frac{1}{2}$ $b = 1$

5 $y = 7 + 2x$

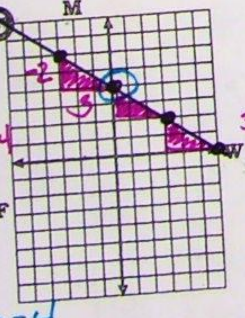
x	y
2	3
-1	9
5	-3
0	7



$m = 2$ $b = 7$

6 $y = -\frac{2}{3}x + 4$

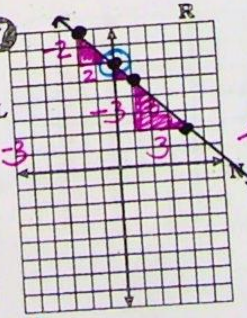
x	y
3	2
-3	6
6	0
0	4



$m = -\frac{2}{3}$ $b = 4$

7 $y = -x + 6$

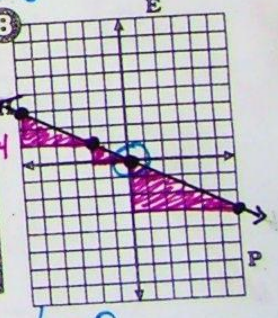
x	y
1	5
4	2
-2	8
0	6



$m = -1$ $b = 6$

8 $y = -\frac{1}{2}x + 0$

x	y
6	-3
-2	1
-6	3
0	0



$m = -\frac{1}{2}$ $b = 0$

Plot the given points. Find the slope. Vertical change
horizontal change

① (4, 5)
(-2, 4)

slope $\frac{1}{6}$

② (4, 4)
(1, 2)

$\frac{2}{3}$

③ (2, -3)
(-5, -3)

$\frac{0}{7} = 0$

④ (2, -1)
(2, -6)

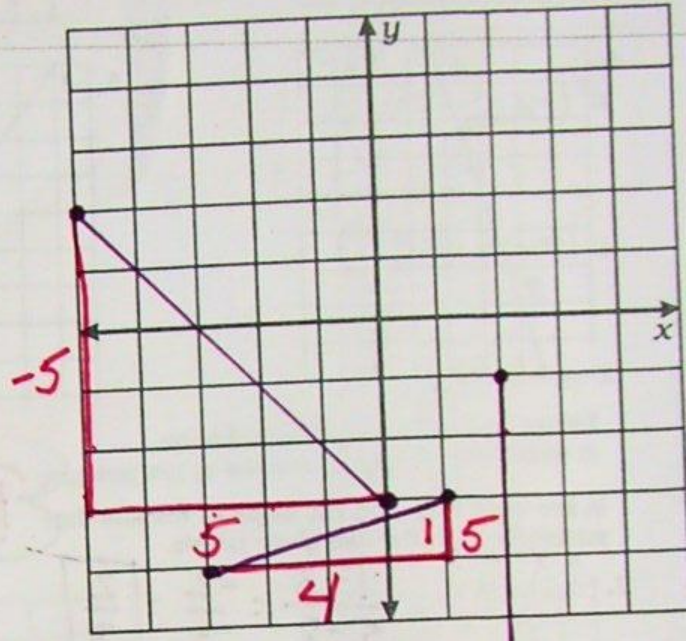
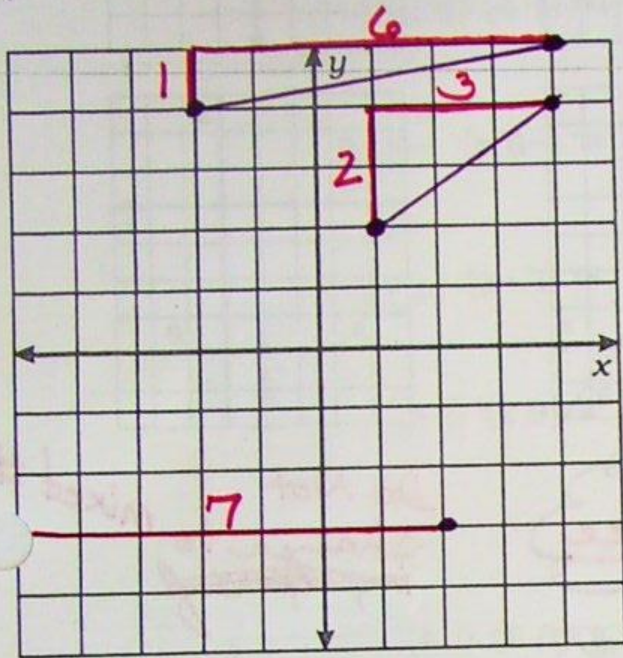
$\frac{5}{0}$ undefined

⑤ (-5, 2)
(0, -3)

$\frac{-5}{5} = -1$

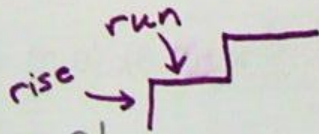
⑥ (1, -3)
(-3, -4)

$\frac{1}{4}$



You can find the slope without plotting the points.
 $(x_1, y_1) (x_2, y_2)$

$$\text{slope} = \frac{y_1 - y_2}{x_1 - x_2} = \frac{\Delta y}{\Delta x} = \frac{\text{change in } y}{\text{change in } x} = \frac{\text{rise}}{\text{run}}$$



Find the slope. Show your work without graphing.

⑦ $\begin{matrix} x & y \\ (-1, -3) \\ (2, 3) \end{matrix}$

$$\frac{-3 - 3}{-1 - 2} = \frac{-6}{-3} = \boxed{2}$$

⑧ $\begin{matrix} x & y \\ (-4, 3) \\ (-2, -1) \end{matrix}$

$$\frac{3 - (-1)}{-4 - (-2)} = \frac{4}{-2} = \boxed{-2}$$

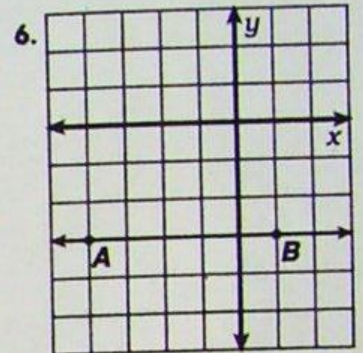
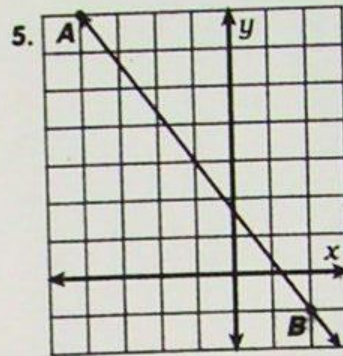
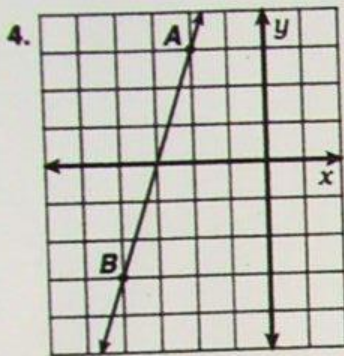
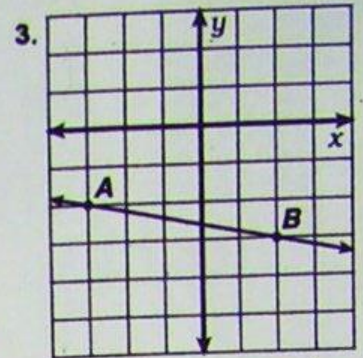
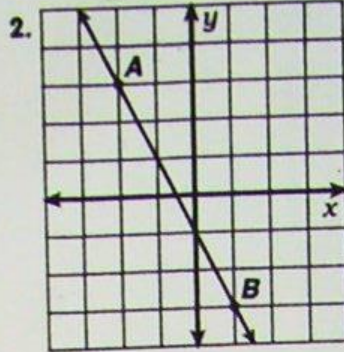
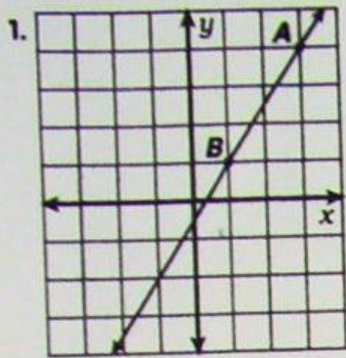
⑨ $\begin{matrix} x & y & x & y \\ (-3, 0) & (-1, 5) \end{matrix}$

$$\frac{0 - 5}{-3 - (-1)} = \frac{-5}{-2} = \boxed{\frac{5}{2}}$$

$$\frac{5 - 0}{-1 - (-3)} = \frac{5}{2}$$

[2.1A]

In Exercises 1-6, find the slope of \overleftrightarrow{AB} .



In Exercises 7-18, find the slope of the line that passes through the two given points.

7. $(5, 1); (8, 3)$

8. $(6, 3); (1, 4)$

9. $(2, -2); (5, 7)$

10. $(1, -6); (9, -8)$

11. $(-3, 7); (-10, 0)$

12. $(-9, 4); (-4, 4)$

13. $(0, -3); (-2, 7)$

14. $(2, 8); (0, 3)$

15. $(-6, 4); (6, -5)$

16. $(-5, -9); (-5, 6)$

17. $(-2, 11); (7, 15)$

18. $(5, 6); (2, 0)$