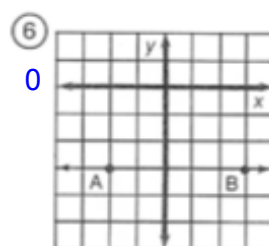
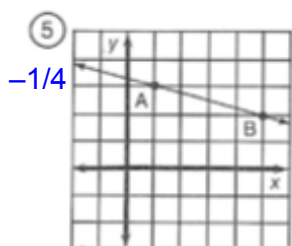
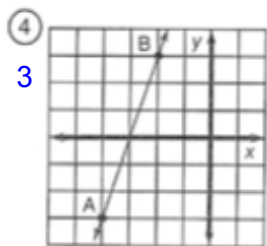
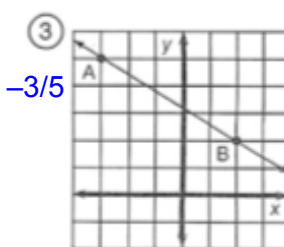
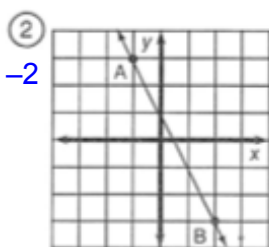
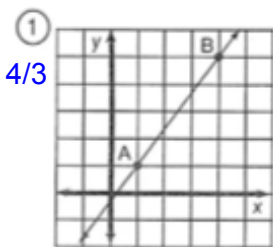


Homework Questions?



⑦ $(2, 1); (5, 3)$ $2/3$

⑪ $(9, 2); (3, -1)$ $1/2$

⑮ $(-4, -8); (-2, 0)$ 4

⑧ $(8, 3); (2, 5)$ $-1/3$

⑫ $(-5, 8); (-4, 2)$ 6

⑯ $(-3, -3); (0, 0)$ 1

⑨ $(1, -4); (6, -2)$ $2/5$

⑬ $(0, -1); (4, -7)$ $-3/2$

⑰ $(2, 5); (9, 1)$ $4/7$


⑩ $(-3, 1); (-7, 4)$ $-3/4$


⑭ $(1, -1); (-2, -6)$ $5/3$

⑱ $(0, 0); (-2, 7)$ $-7/2$

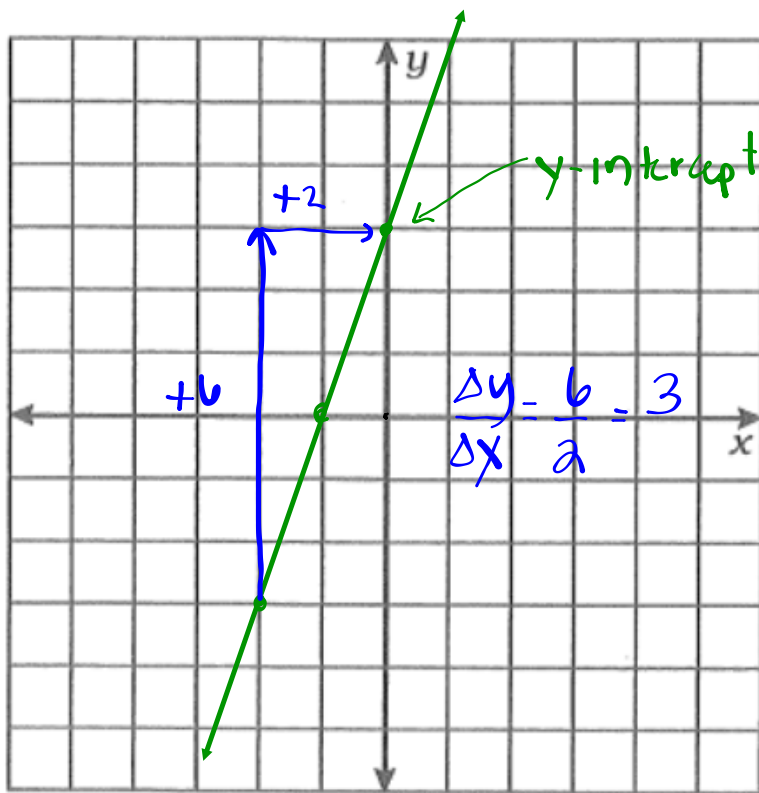
Slope-Intercept Equation

$$y = mx + b$$

 Slope = $\frac{\Delta y}{\Delta x}$

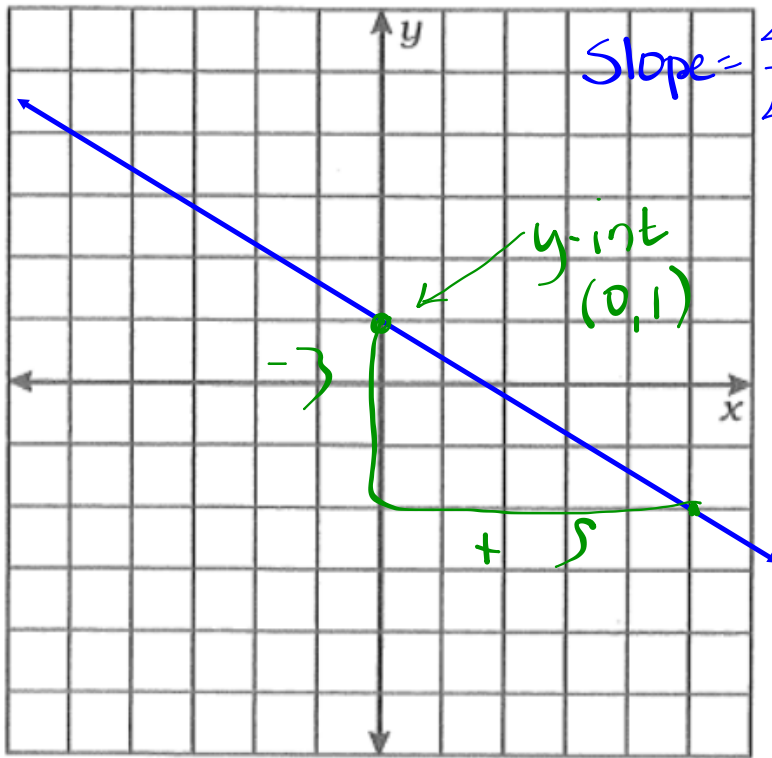
 y-intercept
value of y
when $x = 0$

$$y = mx + b$$



$$y = 3x + 3$$

$$y = mx + b$$



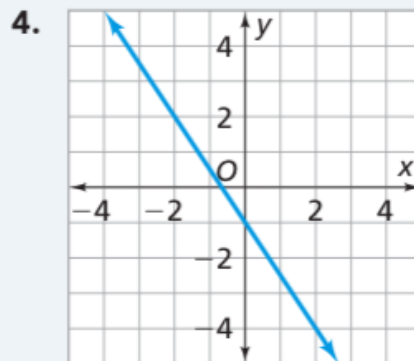
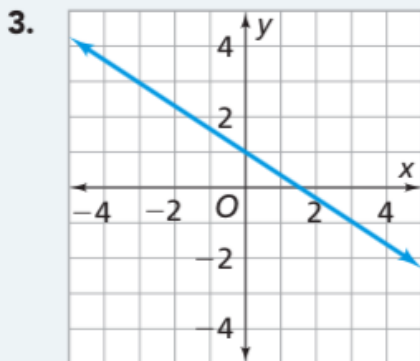
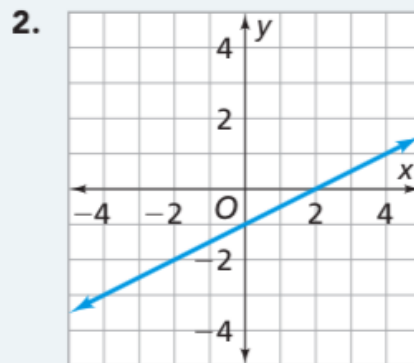
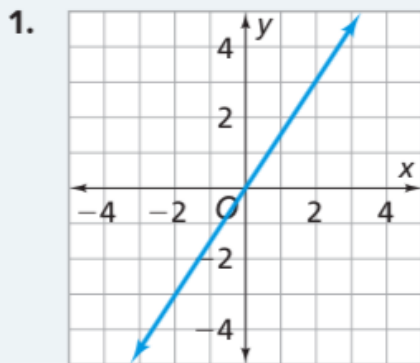
$$\text{Slope} = \frac{\Delta y}{\Delta x} = -\frac{3}{5}$$

$$y = -\frac{3}{5}x + 1$$

Problem 2.2

Use the data given in each question to find the equation of the linear function relating y and x .

- A** For the functions with the graphs below, find the slope and y -intercept. Then write the equations for the lines in the form $y = mx + b$.



- B** 1. Find equations for the linear functions that give these tables. Write them in the form $y = mx + b$.

a.

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

$\overset{+1}{\wedge}$ $\overset{+1}{\wedge}$ $\overset{+1}{\wedge}$ $\overset{+1}{\wedge}$
 $\underset{+2}{\vee}$ $\underset{+2}{\vee}$ $\underset{+2}{\vee}$ $\underset{+2}{\vee}$

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

b.

x	-6	-2	2	6	10
y	-4	-2	0	2	4

2. For each table, find the unit rate of change of y compared to x .
3. Does the line represented by this table have a slope that is greater than or less than the equations you found in part 1(a) and part 1(b)?

x	-1	0	1	2	3
y	4	1	-2	-5	-8

Homework

Finish classwork