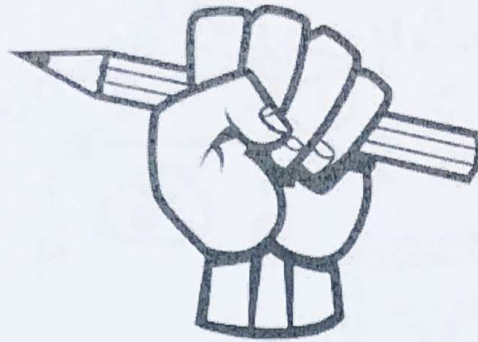


Name:

Answers No. 1

Period:

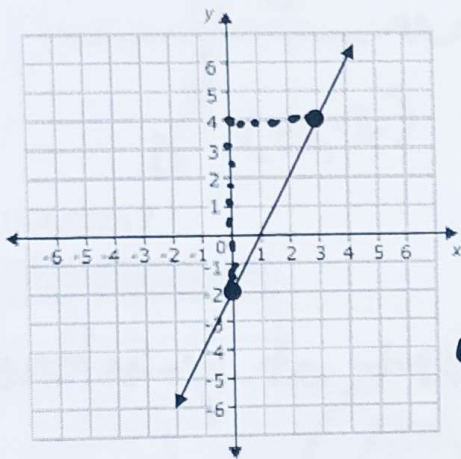


Unit 5 Practice Test No. 1

Calculators OK

y-intercept

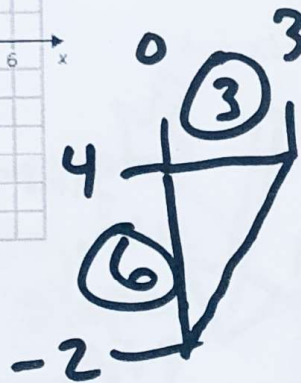
Question 1. Write the $y = mx + b$ equation



$$y = mx + b$$



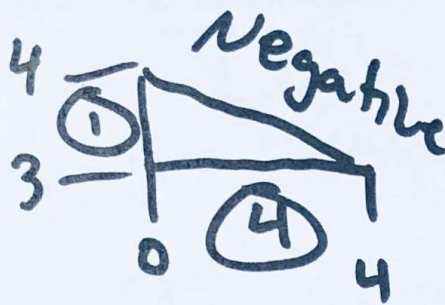
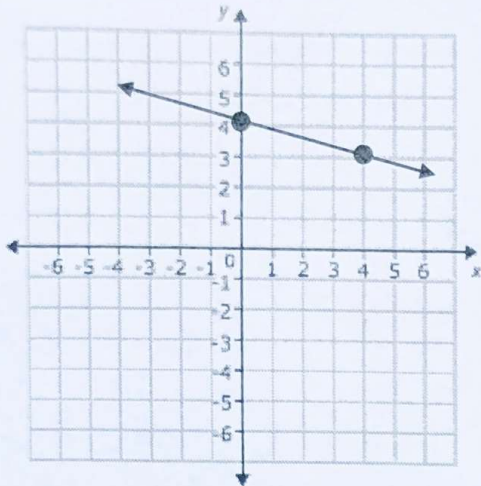
$\frac{\text{Rise}}{\text{Run}}$ or Slope



$$\frac{\text{Rise}}{\text{Run}} = \frac{6}{3} = 2$$

$$y = 2x - 2$$

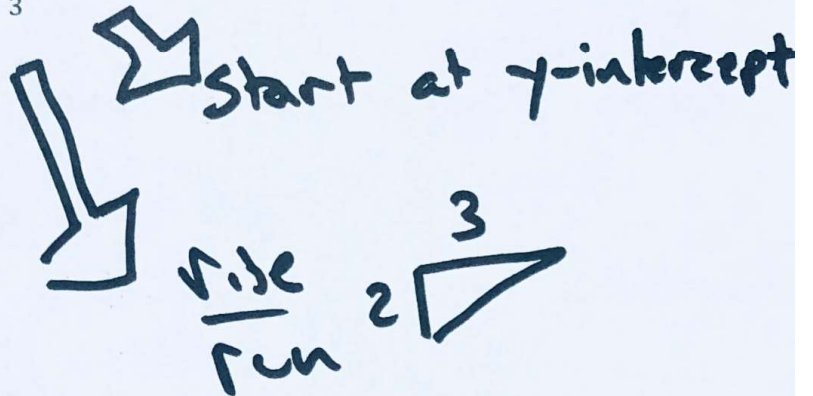
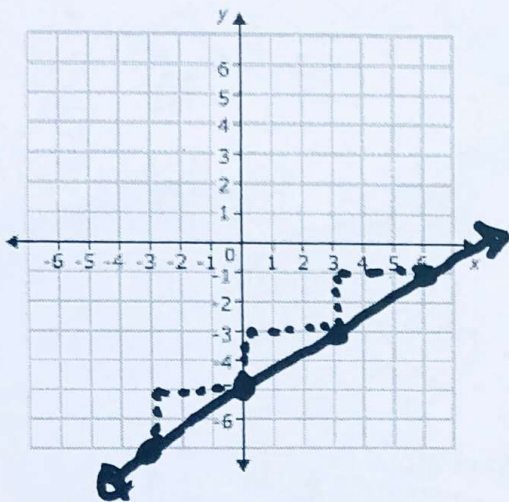
Question 2. Write the $y = mx + b$ equation



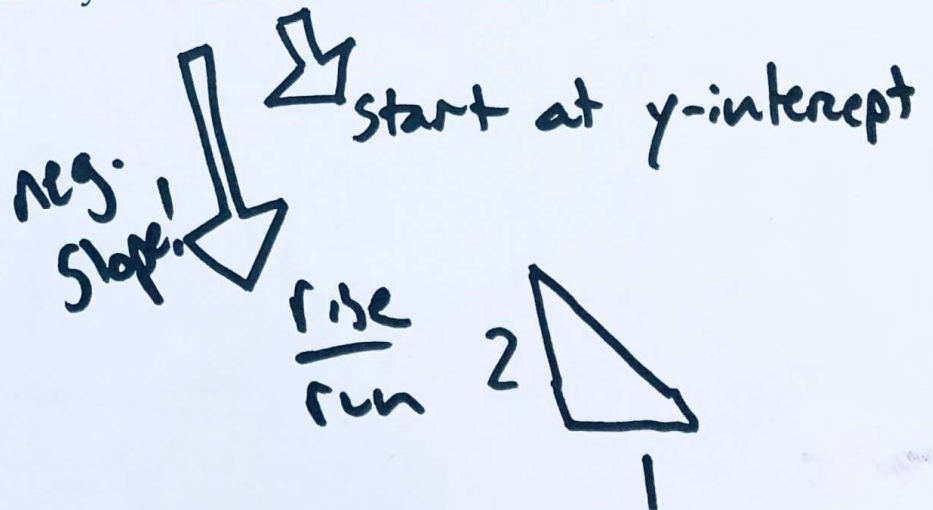
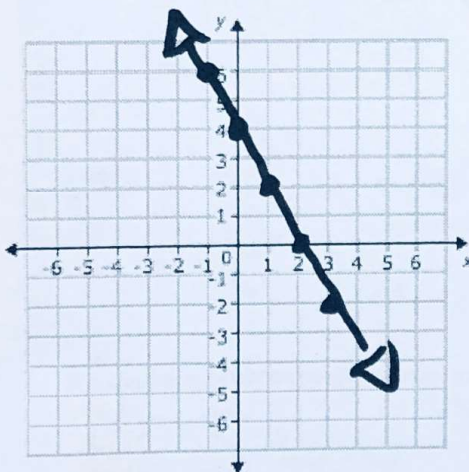
$$y = -\frac{1}{4}x + 4$$

slope

Question 3. Graph the equation $y = \frac{2}{3}x - 5$

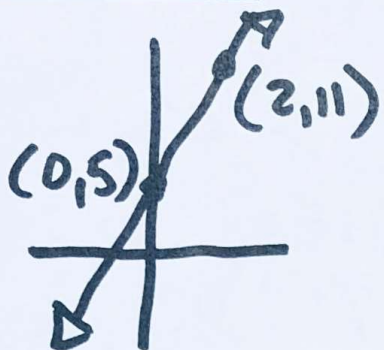


Question 4. Graph the equation $y = -2x + 4$



Question 5.

x	y
0	5
2	11



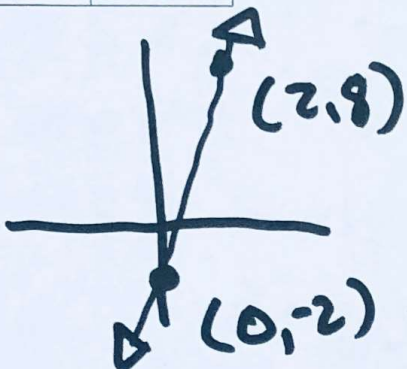
$$y = mx + b$$

$$\frac{\text{Rise}}{\text{Run}} = \frac{6}{2} = 3$$

$$y = 3x + 5$$

Question 6.

x	y
0	-2
2	8

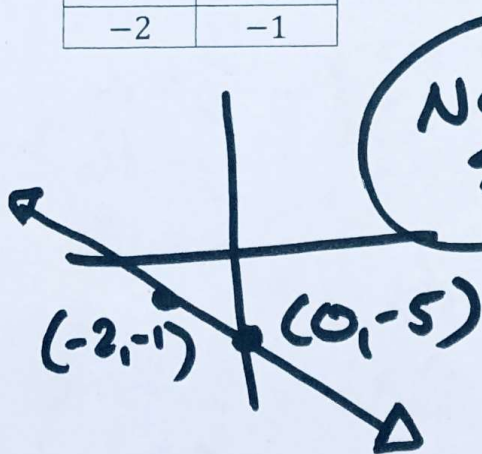


$$\frac{\text{Rise}}{\text{Run}} = \frac{10}{2} = 5$$

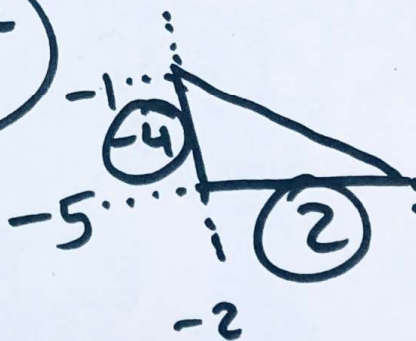
$$y = 5x - 2$$

Question 7.

x	y
0	-5
-2	-1



Negative slope

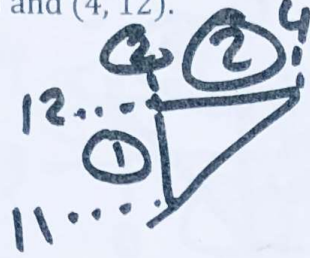
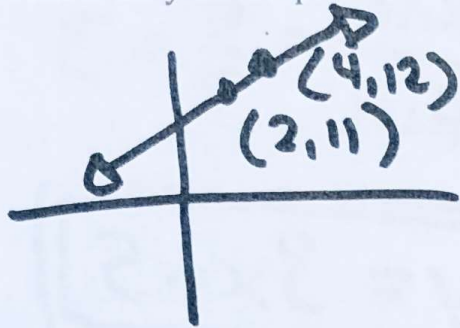


$$\frac{\text{Rise}}{\text{Run}} = \frac{-4}{2} = -2$$

$$y = -2x - 5$$

Question 8.

A line includes coordinates (2, 11) and (4, 12).
What is the y-intercept?



$$\frac{\text{Rise}}{\text{Run}} = \frac{1}{2} = m$$

$$y = 11$$

$$x = 2$$

$$y = mx + b$$

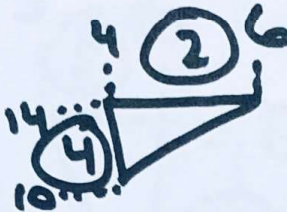
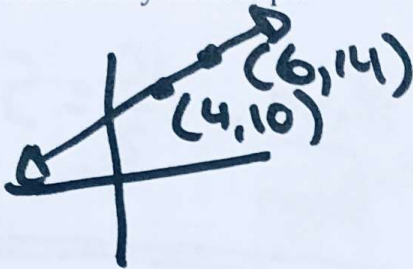
$$11 = \left(\frac{1}{2}\right)2 + b$$

$$11 = 1 + b$$

$$b = 10$$

Question 9.

A line includes coordinates (4, 10) and (6, 14).
What is the y-intercept?



$$\frac{\text{Rise}}{\text{Run}} = \frac{4}{2} = 2 = m$$

$$y = 10$$

$$x = 4$$

$$y = mx + b$$

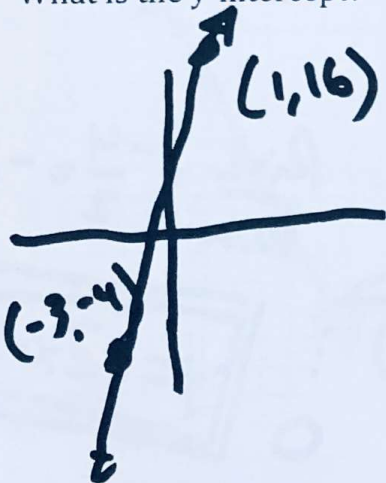
$$10 = 2(4) + b$$

$$10 = 8 + b$$

$$b = 2$$

Question 10.

A line includes coordinates (-3, -4) and (1, 16).
What is the y-intercept?



$$\frac{\text{Rise}}{\text{Run}} = \frac{20}{4} = 5 = m$$

$$y = 16$$

$$x = 1$$

$$y = mx + b$$

$$16 = 1(5) + b$$

$$16 = 5 + b$$

$$b = 11$$