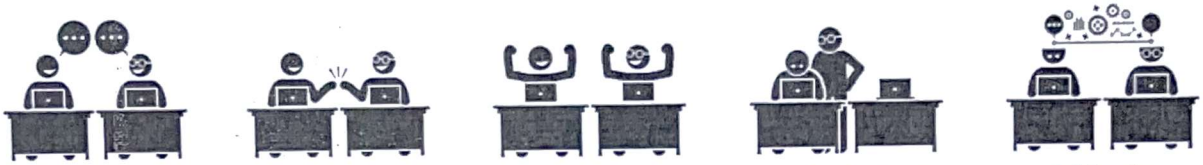
Name: ANSWERS! Class:

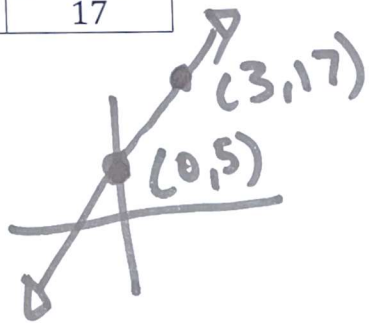


Communication | Successful Partnership | Encouragement | Solving Problem Together | Collaboration

Question 01

Write the $y = mx + b$ equation for the line that includes the points below.

x	y
0	5
3	17



$b = 5$

slope is positive

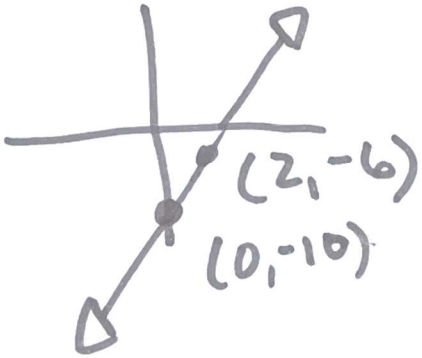
$\frac{\text{Rise}}{\text{Run}} = \frac{12}{3} = 4$

$y = 4x + 5$

Question 02

Write the $y = mx + b$ equation for the line that includes the points below.

x	y
0	-10
2	-6



$b = -10$

slope is positive

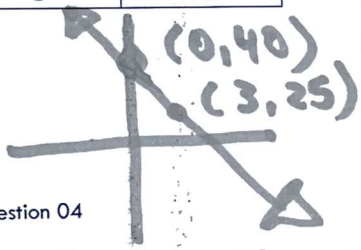
$\frac{\text{Rise}}{\text{Run}} = \frac{4}{2} = 2$

$y = 2x - 10$

Question 03

Write the $y = mx + b$ equation for the line that includes the points below.

x	y
0	40
3	25



$b = 40$

Slope is negative

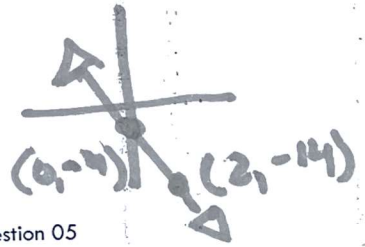
$-15 \Delta 3$ $\frac{\text{Rise}}{\text{Run}} = \frac{-15}{3} = -5$

$y = -5x + 40$

Question 04

Write the $y = mx + b$ equation for the line that includes the points below.

x	y
0	-4
2	-14



$b = -4$

Slope is negative

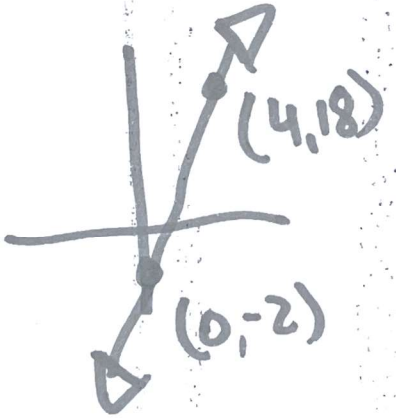
$-10 \Delta 2$ $\frac{\text{Rise}}{\text{Run}} = \frac{-10}{2} = -5$

$y = -5x - 4$

Question 05

Write the $y = mx + b$ equation for the line that includes the points below.

x	y
0	-2
4	18



$b = -2$

Slope is positive!

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

$y = 5x - 2$