

1. Write the equation, in Point-Slope Form, of the line that passes through this pair of points (9,-11) and (-4,23)

EQ:

2. Write the equation of the line that passes through this pair of points (7,3) and (7,-3)

EQ:

3. Identify the Slope and the Point that was used to write this equation:

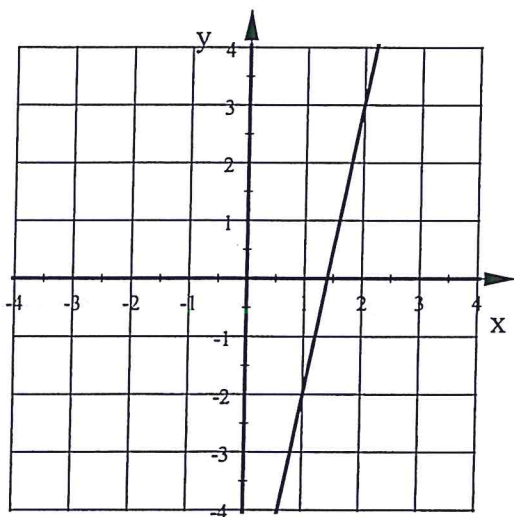
$$y + 18 = -7(x - 23)$$

Slope:

Point:

4. Write the equation, in Point-Slope Form, of the line shown in the graph below.

EQ:



5. Rewrite this equation into Slope-Intercept Form.

$$y + 14 = -5(x - 2)$$

1. Write the equation, in Point-Slope Form, of the line that passes through this pair of points (9, -11) and (-4, 23)

$$m = \frac{23 - (-11)}{-4 - 9}$$

$$= \frac{34}{-13}$$

EQ: using (9, -11) $\rightarrow y + 11 = -\frac{34}{13}(x - 9)$

using (-4, 23) $\rightarrow y - 23 = -\frac{34}{13}(x + 4)$

2. Write the equation of the line that passes through this pair of points (7, 3) and (7, -3)

$$m = \frac{3 - (-3)}{7 - 7} = \frac{6}{0}$$

EQ: $x = 7$

m is undefined so line is Vertical

3. Identify the Slope and the Point that was used to write this equation:

$$y + 18 = -7(x - 23)$$

Slope:

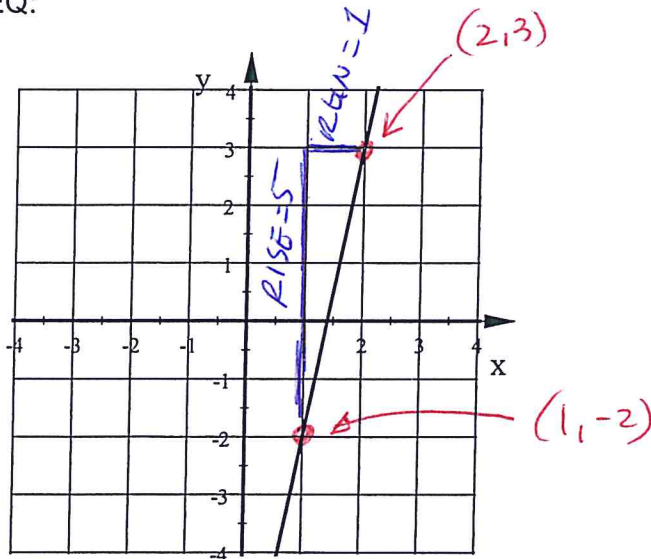
$$m = -7$$

Point:

$$(23, -18)$$

4. Write the equation, in Point-Slope Form, of the line shown in the graph below.

EQ:



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

using (2, 3) $\rightarrow y - 3 = 5(x - 2)$

using (1, -2) $\rightarrow y + 2 = 5(x - 1)$

5. Rewrite this equation into Slope-Intercept Form.

$$y + 14 = -5(x - 2)$$

1st DISTRIBUTE -5 $\rightarrow y + 14 = -5x + 10$

-14 -14

2nd SUBTRACT 14 from both sides

$$y = -5x - 4$$