

Find the slope of the given points ANSWER KEY

1.) $m = -3$

2.) $m = 2/3$

3.) $m = 4/11$

4.) $m = -5/4$

5.) $m = -1$

6.) $m = \text{zero}$

7.) $m = 11/16$

8.) $m = 5/4$

9.) $m = \text{undefined}$

10.) $m = 2/5$

Find the intercepts **ANSWER KEY**

1.) $x\text{-int} = 4$

$y\text{-int} = -8$

2.) $x\text{-int} = 9$

$y\text{-int} = 9$

3.) $x\text{-int} = -14$

$y\text{-int} = 7$

4.) $x\text{-int} = 4$

$y\text{-int} = -8$

5.) $x\text{-int} = -5$

$y\text{-int} = 2$

6.) $x\text{-int} = -2$

$y\text{-int} = 6$

7.) $x\text{-int} = 15$

$y\text{-int} = 3$

8.) $x\text{-int} = -4$

$y\text{-int} = 2$

9.) $x\text{-int} = -6$

$y\text{-int} = 2$

10.) $x\text{-int} = 4$

$y\text{-int} = 2$

Find the slope from the graph ANSWER KEY

1.) $m = -2/3$

2.) $m = 2/5$

3.) $m = \frac{1}{2}$ Look at the scale!

4.) $m = 1$

5.) $m = -1$

6.) $m = -1/2$

7.) $m = \text{undefined}$

8.) $m = 5$

9.) $m = -1/10$

10.) $m = \text{zero}$

Miscellaneous ANSWER KEY

1.) If two points have an undefined slope then they must have the SAME X VALUE. Y can be any number.	2.) Never If there is a y-intercept the equation is not direct variation. $y = 2x + 4$
3.) Always The equation $y = 3x$ is always direct variation. The constant of proportionality would be 3.	4.) If two points have zero slope they must have the same Y VALUE. X can be any number.
5.) (10, -3)	6.) (-2, -2)
7.) Similar; Both equations have a rate of change, the slope. They are also linear functions so both will have a straight line. Different; The direct variation equation, $y = kx$, always goes through the origin. The slope-intercept equation, $y = mx + b$, can go through the origin, but it can also move up or down the y-axis.	8.) Sometimes If the slope is a whole number then it is a unit rate. For example a slope of 4 can be written $4/1$. If the slope has a denominator other than one it is still a rate, but not a unit rate.
9.) $y = 8x + 2$	10.) $3x + 2y = 12$ OR Slope-intercept form; $y = -\frac{3}{2}x + 6$