

# **Math Videos on Slope, Y-Intercept and Slope-Intercept Form:**

## **SLOPE VIDEOS**

Types of Slope (positive, negative, zero, undefined) (Time: 3:20)

<https://www.youtube.com/watch?v=SD8Vb8A-kKE>

Types of Slope (Slope Dude) (Time: 2:12)

<https://www.youtube.com/watch?v=ZcSrJpQvHQ>

Find Slope Given a Line (Example 1): (Time: 1:33)

<https://www.youtube.com/watch?v=8XtrOWpGez0>

Example 2: (Time: 1:45)

<https://www.youtube.com/watch?v=c-iK1SCCINc>

Still having trouble finding slope from a graph? (Try this video) (Time: 4:39) :

<https://www.youtube.com/watch?v=R948Tsyq4vA>

Find Slope Given two Points (Graph & formula) (Time: 4:05)

[https://www.youtube.com/watch?v=2kMUK\\_XRvRQ](https://www.youtube.com/watch?v=2kMUK_XRvRQ)

Slope Formula (6:26) (YOU NEED TO MEMORIZE)

[https://www.youtube.com/watch?v=f\\_EcNNhXjl](https://www.youtube.com/watch?v=f_EcNNhXjl)

After watching the videos, try "Slope Practice Problems"

## **Y-intercept**

Y-intercept (overview- blurry) (Time: 4:39)

<https://www.youtube.com/watch?v=fbmpLDsnzv4>

X & Y Intercepts (focus on Y-intercept) (Time: 5:39)

<https://www.youtube.com/watch?v=wPs0tjl8Vpg>

After watching the videos, try "Y-Intercept Practice Problems"

## **Slope-Intercept Form:**

Slope-Intercept Form (3:32)

<https://www.youtube.com/watch?v=2DomGn4ZhiM>

Slope- Intercept Form (GREAT VIDEO) (Ms. D's future husband). (Time: 5:16)

[https://www.youtube.com/watch?v=u3spOO-m\\_Gg](https://www.youtube.com/watch?v=u3spOO-m_Gg)

Slope-Intercept Form: (After example 1, try to do Example 2 by yourself, and then check with the video) (Time: 6:07)

[https://www.youtube.com/watch?v=-Kk\\_NfgZALI](https://www.youtube.com/watch?v=-Kk_NfgZALI)

After watching the videos, try "Slope-Intercept Practice Problems"

## **Graphing Linear Equations:**

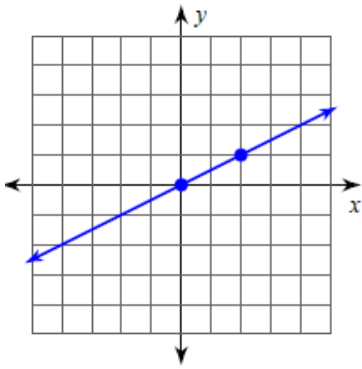
How to Graph Linear Equations (6:07) After watching the videos, try "Graphing Practice Problems"

<https://www.youtube.com/watch?v=miG-JhttnZo>

## Slope Practice Problems:

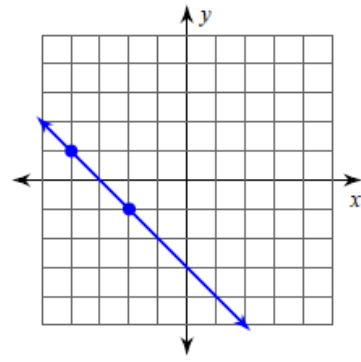
Find the slope of each graph:

1.)



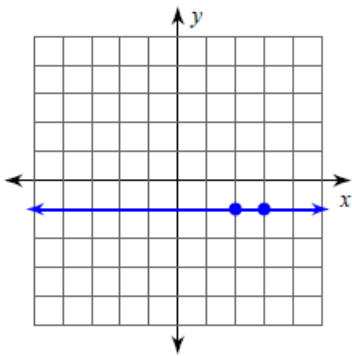
Slope: \_\_\_\_\_

2.)



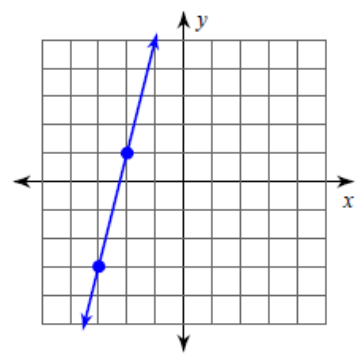
Slope: \_\_\_\_\_

3.)



Slope: \_\_\_\_\_

4.)



Slope: \_\_\_\_\_

Find the Slope of a line from the two given points using the slope formula. (SHOW ALL WORK.)

5.)  $(-3, -3)$  and  $(7, 6)$

6.)  $(2, -4)$  and  $(5, -8)$

Slope: \_\_\_\_\_

Slope: \_\_\_\_\_

7.)  $(9, -4)$  and  $(10, 8)$

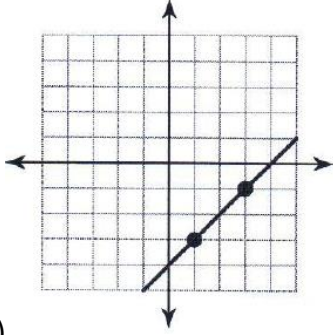
8.)  $(12, -7)$  and  $(5, -7)$

Slope: \_\_\_\_\_

Slope: \_\_\_\_\_

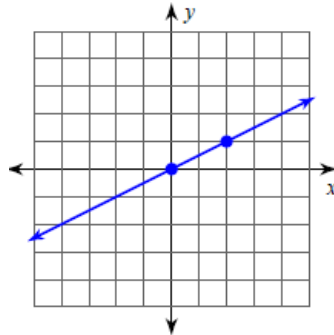
## Y-Intercept Practice Problems:

Find the y-intercept of each graph:



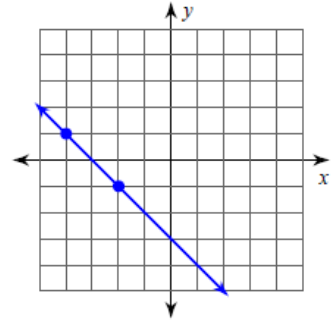
1)

y-intercept : \_\_\_\_\_



2)

y-intercept : \_\_\_\_\_



3)

y-intercept : \_\_\_\_\_

Identify the y-intercept in each of the following equations:

4)  $y = \frac{3}{4}x + 2$

y-intercept : \_\_\_\_\_

5)  $y = -3x - 8$

y-intercept : \_\_\_\_\_

6)  $y = -4x$

y-intercept : \_\_\_\_\_

## Slope-Intercept Form Practice Problems:

Write the equation of a line in Slope-Intercept Form using the given information.

1) Slope = 3 and passes through (-4,0)

2) Slope = -1 and passes through (3, -1)

3) Slope = -4 and passes through (-2,5)

4) Slope = 7 and passes through (1, 2)

5) Slope = -1 and passes through (2, -4)

6) Slope =  $\frac{1}{2}$  and passes through (3, 1)

Write the equation of a line in Slope-Intercept Form given two points on the line.

7) through: (0, 3) and (-4, -1)

8) through: (-4, 0) and (1, -5)

9) through: (-4, -2) and (-3, 5)

10) through: (-4, 2) and (0, -5)

11) through: (4, -2) and (-4, -4)

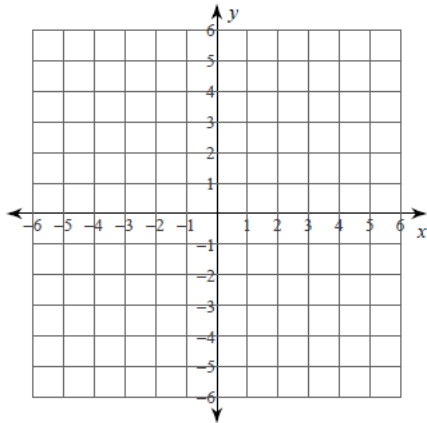
12) through: (-2, 2) and (-5, -4)

13) through: (5, 1) and (-5, 3)

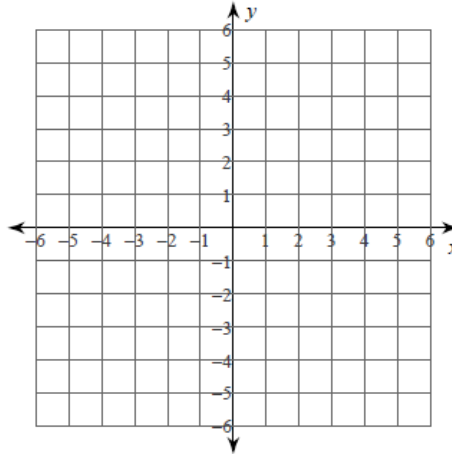
14) through: (5, 3) and (4, 5)

# Graphing Linear Equations Practice Problems:

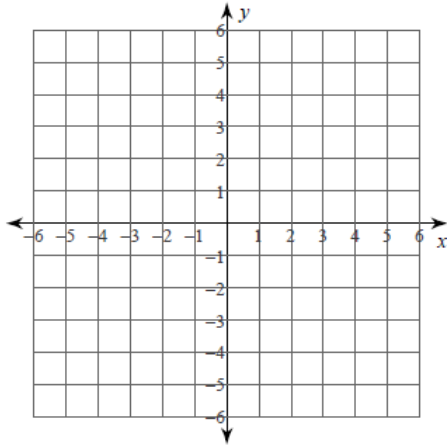
1)  $y = \frac{7}{2}x - 2$



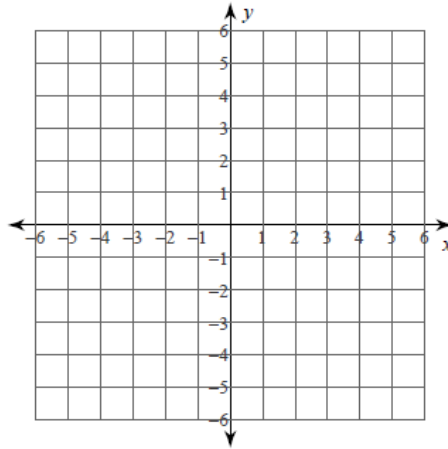
2)  $y = -6x + 3$



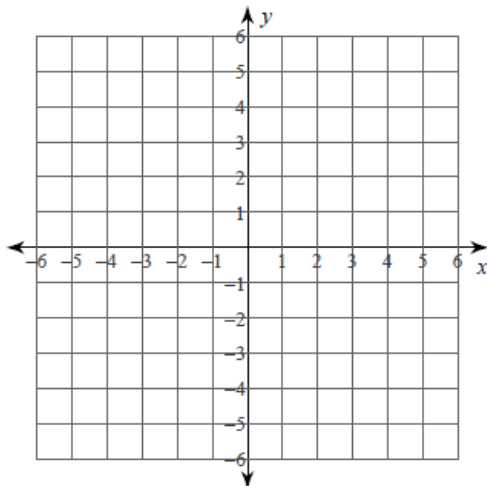
3)  $y = -5$



4)  $y = \frac{6}{5}x + 1$



5)  $y = \frac{1}{4}x + 2$



7)  $y = \frac{5}{3}x$

