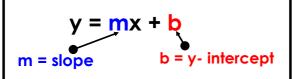
7.2 - Finding the Slope from an Equation

Objective: Students will be able to find the slope of a line from a linear equation

Equations of a line: Slope - Intercept Form



Determine the slope of the line

$$y = 2x + 5$$

Determine the slope of the line 4y = 6x + 20

1. Put into
$$y = mx + b$$
 form

2. State the slope

m = ___

Determine the slope of the line

1. Put into
$$y = mx + b$$
 form

2. State the slope

4x + 2y = 6

m = ___

Determine the slope of the line

1. Put into
$$y = mx + b$$
 form

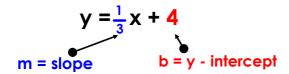
2. State the slope

8x - 10y = 20

m = ___

Graphing Lines Using Slope - Intercept Form

Graph the line below

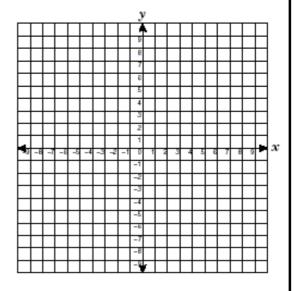


Step 1: Identify Slope and y - intercept

Step 2: Plot y - intercept on graph

Step 3: Use the next point (remember, RISE over RUN)

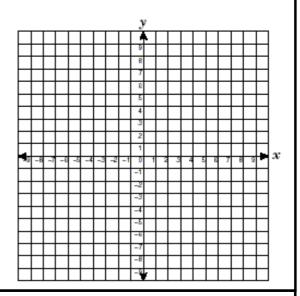
Step 4: Draw line through both points



Graph the line below

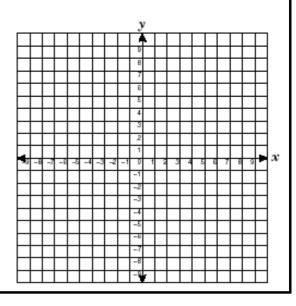
Must put into Slope - Intercept Form!

$$2x + 3y = -12$$



Graph the line below

Must put into Slope - Intercept Form!



Determine the slope of the line y = 5x + 10

Determine the slope of the line y = -12x + 10

Easy

What is the slope of a line represented by the equation 2y = x - 4?

What is the slope of the line whose equation is 2y = 5x + 4?

Mediun

What is the slope of the line represented by the equation 4x + 3y = 7?

What is the slope of the line whose equation is 3x - 7y = 9?

ΗQΓ

Find the pair of equations with the same slope

- (1) -15y 20x = 2
- (2) 3y = 4x + 2
- (3) -20x +15y = 2
- [A] (1) and (2) [B] (1) and (3)
- [C] (2) and (3)
- [D] There are no parallel lines.

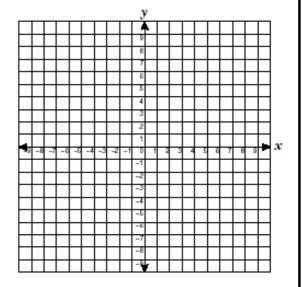
\astery Level

Graph the following lines



State the slope:

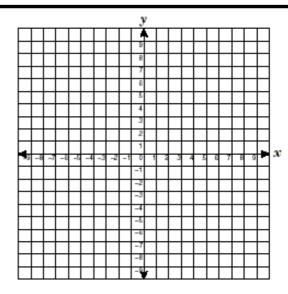
State the y - intercept:



2x - 6y = 12

State the slope:

State the y - intercept:



4y - 6x = 4

State the slope:

State the y - intercept:

