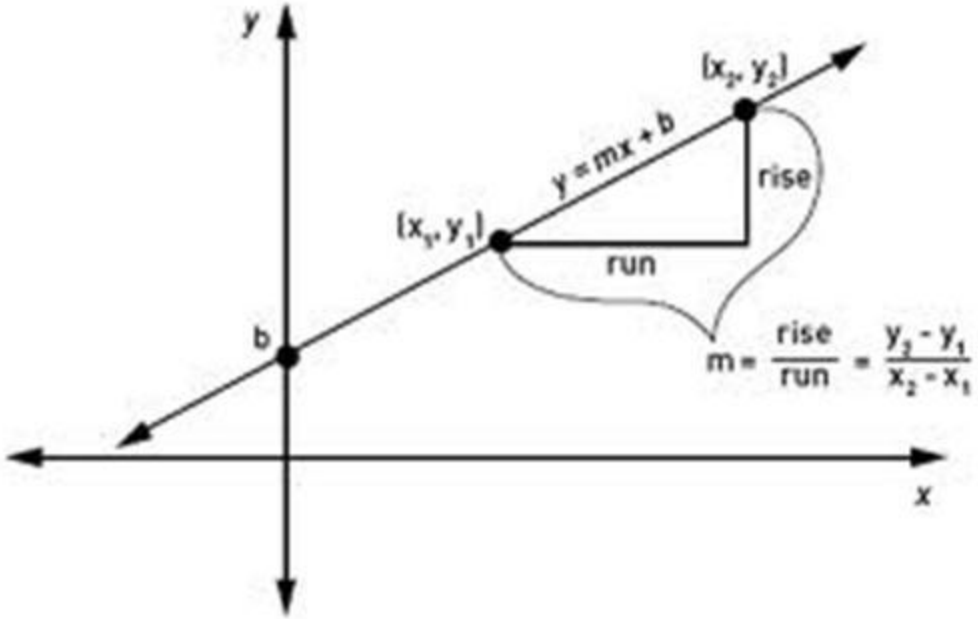
Slope-Intercept Form



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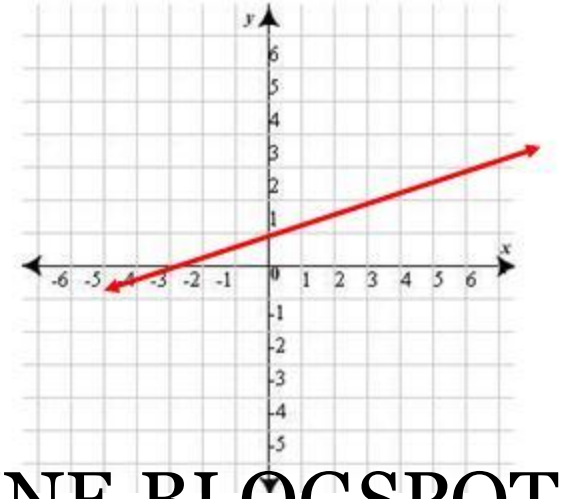
Slope-Intercept Form

A linear equation of the form $y = mx + b$ is written in slope-intercept form where m is the slope and b is the y-intercept of the equation's graph.

$$y = \textcolor{orange}{m}x + \textcolor{purple}{b}$$

slope y-intercept

$$y = \textcolor{orange}{\frac{1}{3}}x + \textcolor{purple}{1}$$



Slope-Intercept Form

Identify the slope and y-intercept.

$y = 3x + 4$

m = 

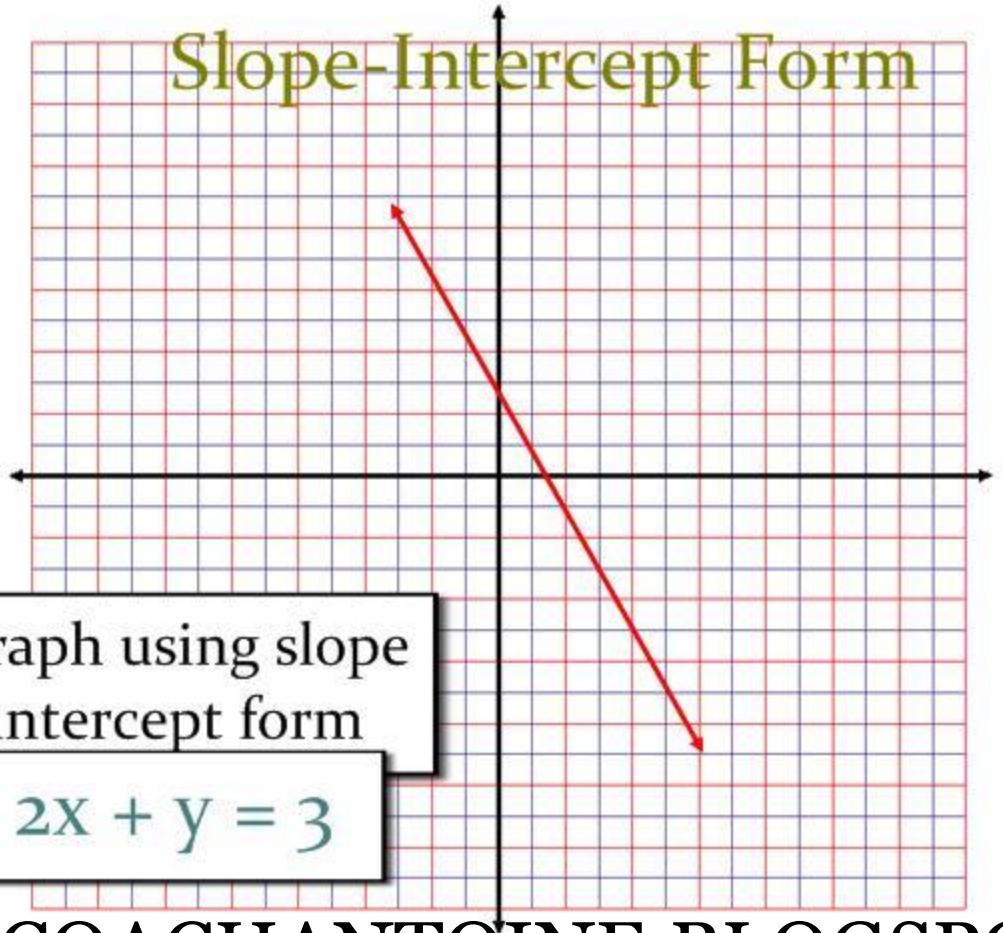
b = 

$3x - 3y = 12$

m = 

b = 

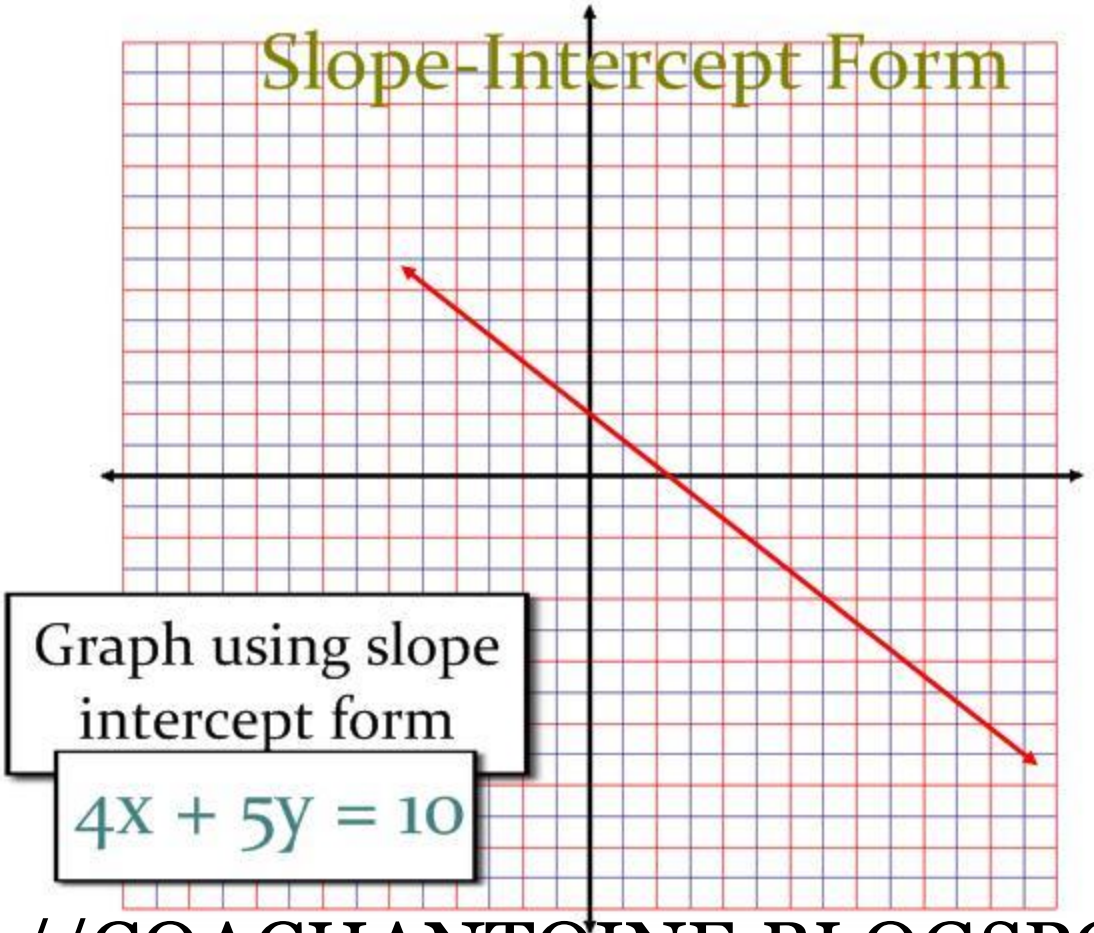
Slope-Intercept Form



Graph using slope intercept form

$2x + y = 3$

Slope-Intercept Form



Graph using slope intercept form

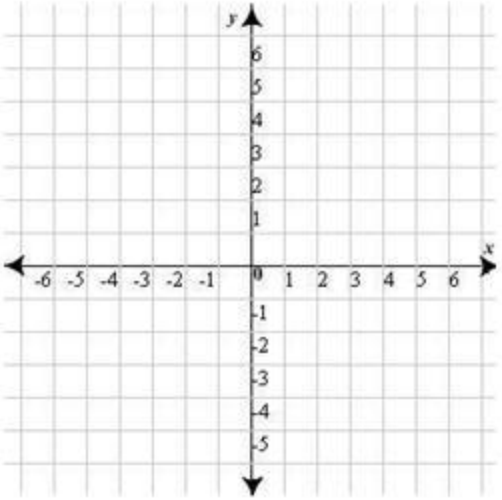
$4x + 5y = 10$

Slope-Intercept Form

Two lines in the same plane are parallel if they do not intersect. Parallel lines have the SAME SLOPE...

Slope-Intercept Form

Determine the equation of the line with a slope of 3 that passes through the point (-2, 1)



Slope-Intercept Form

Determine the equation of the line with a slope of -0.6 that passes through the point (1, 24)