

DO NOW

1. Find the slope of the line that passes through the points (3, 1) and (4,-5).

2. Find the slope of the line that passes through the points (1, 5) and (1, 6).

Graphing Linear Equations



Graphing Linear Equations

Graph the following using 3 points.

y-intercept = _____



Slope-Intercept Form of a Linear Equation

Graphing Linear Equations

Graph the following equation using slope-intercept form.

1) y = 2x - 3



Graphing Linear Equations

Graph the following equation using slope-intercept form.





Write the slope and y-intercept. Then plot them. Finish by graphing the line.



Write the slope and y-intercept. Then plot them. Finish by graphing the line.



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Graphing Linear Equations

Graph the following equation using slope-intercept form.



Graphing Linear Equations

Graph the following equation using slope-intercept form.



y-axis



Slope-Intercept Form

What is the equation of a line in slope-intercept form?

Example

11) Write an equation of the line with a slope of -2 and a *y*-intercept of 5.

Example

12) Write an equation of the line shown.



Example

13) Write an equation of the line shown.



Practice

14) Write an equation of the line with a slope of 8 and a y-intercept of -7.

Practice

Write an equation of the line shown.





APPLICATION



The cost y (in dollars) of taking a taxi x miles is y = 2.5x + 2. (a) Graph the equation. (b) Interpret the y-intercept and the slope.