

ALGEBRA II
Chapter 2 section 4
Write Equations of Lines
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FOCUS:

How do you write an equation of a line?

VOCAB:

Point - slope form: _____

WARM – UP:

In a computer generated drawing, a line is represented by the equation $2x - 5y = 15$.

1. Solve the equation for y and identify the slope of the line.
 2. What should the slope of a second line in the drawing be if that line must be perpendicular to the first line?
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NOTES:

Write an equation of the line that passes through the given point and uses the given slope.

$$(0, 2) \quad m = -\frac{1}{3}$$

$$(8, -1) \quad m = -\frac{1}{2}$$

Write an equation of the line that passes through $(-2, 1)$ and is (a) parallel to, and (b) perpendicular to, the line $y = -3x + 1$.

Write an equation of the line that passes through the given points.

$(-8, 20)$ & $(-6, 15)$

$(-2, 5)$ & $(4, -7)$

In a chemistry experiment you record the temperature of a compound to be -5°F one minute after you begin the experiment. Six minutes after you begin the experiment, the temperature is 20°F . Write a linear equation that models the temperature of the compound in relation to elapsed time.

You have \$6 to spend on drinks and a salad at the school cafeteria. The drinks cost \$1.25 each and the salad costs \$0.20 per ounce. Write an equation that models this situation.

Let's see if you comprehended what we worked on in class...

Try _____ for homework