U6D2

Warm up:

Given the linear equation y = -2x + 5, a) identify the slope and y-intercept b) graph

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Equation of a Line in Standard Form

The form of a linear equation that we have focused on so far is the slope y-intercept form:

Another form of a linear equation that is used is called the Standard Form. Standard form of a linear equation is:

- The coefficient on the leading term (First term) is _____
- Right side of the equation equals _____

Example 1: Which equations are in standard form?

a) 3x - 4y - 3 = 0 b) y = 2x - 3 c) 2y + 5x - 7 = 0

d) 0 = 3x - y + 1 e) x - 2 = 0 f) $y + \frac{7}{2} = 0$ g) - y + 5 = 0

Example 2: Express each equation in y=mx+b form. State the slope and y-intercept: a) 4x + 6y + 8 = 0b) 2x - 2y - 6 = 0



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Example 3: Express each equation in Standard form: a) y = 3x + 2b) y = -4x + 6c) $y = \frac{5}{2}x - 1$

Example 4: The Tent-All Company rents tents to campers and charges according to the equation, 10d - C + 50 = 0, where C is the cost in dollars to rent which depends on d, the number of days rented.

a) Express the equation in slope y-intercept form

b) Identify the fixed and the variable costs.

