August 29, 2016

* Quiz # 2 - Wednesday
* Office Hours - 740
* Math Jam Fridays
  PM 320
  12:00 - 2:00

Aug 29-10:55 AM

Linear Equations

Forms

① $y = mx + b$ Slope-Intercept (m: slope, b: y-int)

② $y - y_1 = m(x - x_1)$ Point-Slope

③ $Ax + By = C$ Standard Form
where A, B, & C are not fractions

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$(\frac{1}{2}, -9)$; $m = -\frac{3}{5}$

x_1, y_1

In Std. Form $\rightarrow Ax + By = C$

$y - y_1 = m(x - x_1)$

$y - (-9) = -\frac{3}{5}(x - \frac{1}{2})$

$10\left(y + 9 = -\frac{3}{5}x + \frac{3}{10}\right)$ LCD: 10

$10y + 90 = -6x + 3$

$6x + 10y = -87$

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#14) $Ax + By = C$

$-y - 2y = -x$

$x - 2y = 4$

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$-5x + 2y = 3$

not have a negative x term

$-(-5x + 2y = 3)$

$5x - 2y = -3$

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#20) $(-2, 4)$ parallel $y = -\frac{3}{2}x + 3$

$m = -\frac{3}{2}$

$y - y_1 = m(x - x_1)$

$y - 4 = -\frac{3}{2}(x + 2)$

$2\left(y - 4 = -\frac{3}{2}x - 3\right)$

$2y - 8 = -3x - 6$

$3x + 2y = 2$

$-\frac{3}{2} \cdot \frac{2}{1} = -3$

$-\frac{3}{2} \cdot \frac{2}{1} = -\frac{6}{2} = -3$

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