Algebra I Tues, 12-11-12 Class Notes

(36) $8x = 5y + 15$

$-5y \quad -5y$

$\boxed{8x - 5y = 15}$

STANDARD FORM

Put in Standard Form AND Slope-Intercept Form

Std $\Rightarrow Ax + By = C$

↑ ↖ ↑ ↗

⊕ no fractions

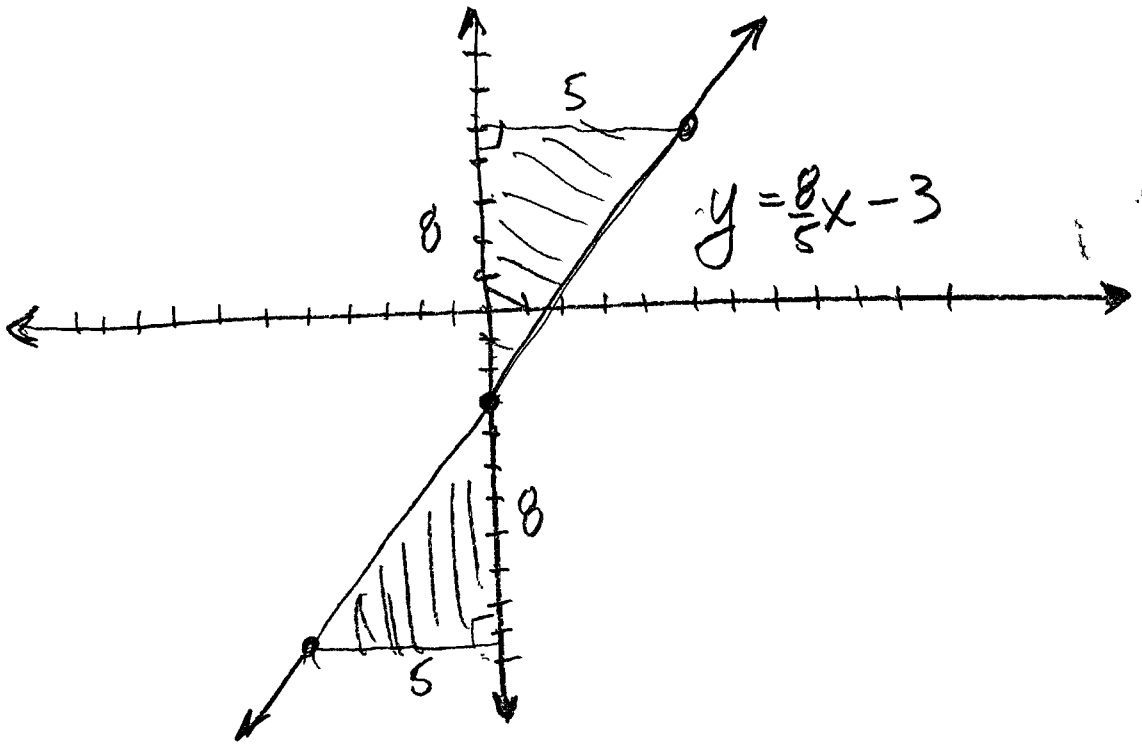
SI $\Rightarrow y = mx + b$

$-15 \quad 8x = 5y + 15 \quad -15$

$\frac{8x}{5} - \frac{15}{5} = \frac{5y}{5}$

$\frac{8}{5}x - 3 = y$ or $\boxed{y = \frac{8}{5}x - 3}$

SLOPE-INTERCEPT FORM



(39) $12 - 3y = -5x$

SF AND SI Form

$Ax + By = C \mid y = mx + b$

$+3y \quad +3y$

"Change All Signs"

$-5x + 3y = 12$

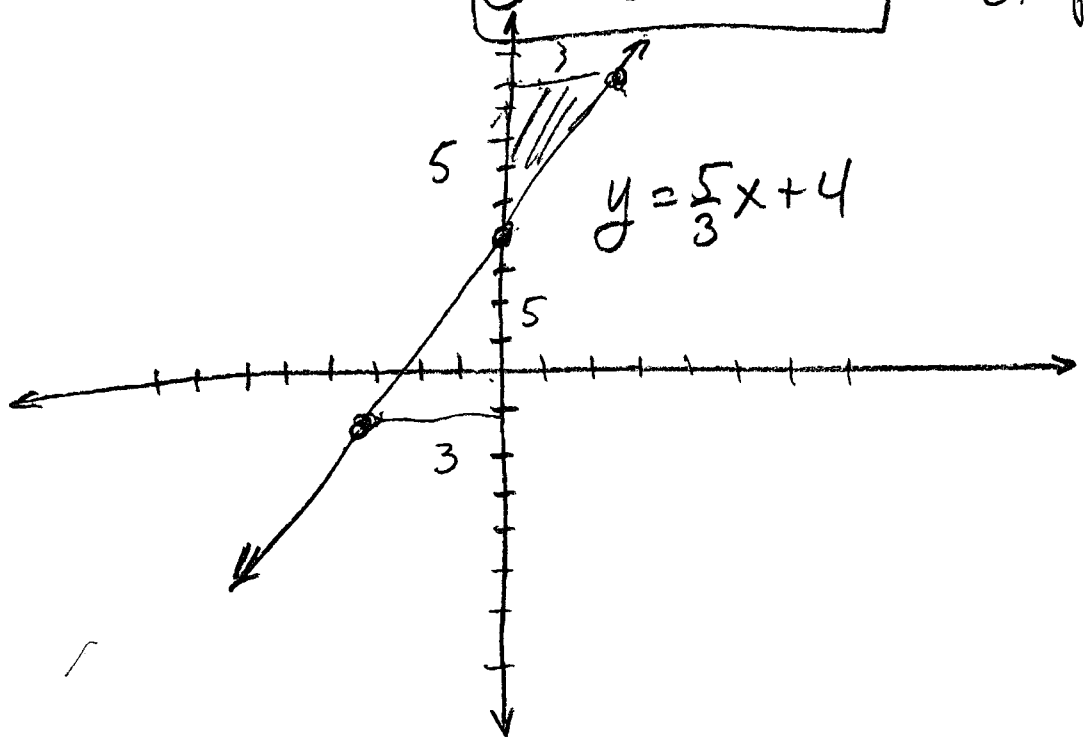
$\boxed{5x - 3y = -12}$

$-5x \qquad -5x$

$\frac{-3y}{-3} = \frac{-5x}{-3} \quad \frac{-12}{-3}$

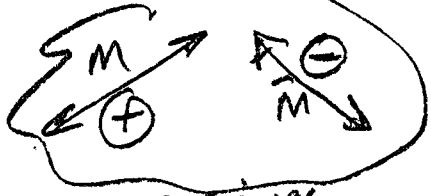
$\boxed{y = \frac{5}{3}x + 4}$

Graph



(41) $4x - 12 = -y$

SF/SI/Graph



$Ax + By = C$

$+y \quad +y$

$4x + y - 12 = 0$

$+12 \quad +12$

$\boxed{4x + y = 12}$ SF

$-4x \quad -4x$

$\boxed{y = -4x + 12}$ SI

$m = \frac{-4}{1}$ $(0, 12)$ $0, b$ begin

4 move

1

$y = -4x + 12$