3.5 Slope-Int $\Rightarrow y = mx + b$

2) $2x + y = 17$

$-2x \quad -2x$

$y = -2x + 17$

$m = -2 \quad b = 17$

9) $15x - 12y = 60$

y-INT: $-12y = 60$, $y = -5$

x-INT: $15x = 60$, $x = 4$

10) $5x + 4y = 20$

y-INT: $4y = 20$, $y = 5$

x-INT: $5x = 20$, $x = 4$

11) $10x + 8y = -40$

y-INT: $8y = -40$, $y = -5$

x-INT: $10x = -40$, $x = -4$

12) $3x - 4y = -12$

$-3x \quad -3x$

$\frac{-4y}{-4} = \frac{-3x}{-4} - \frac{12}{-4}$

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

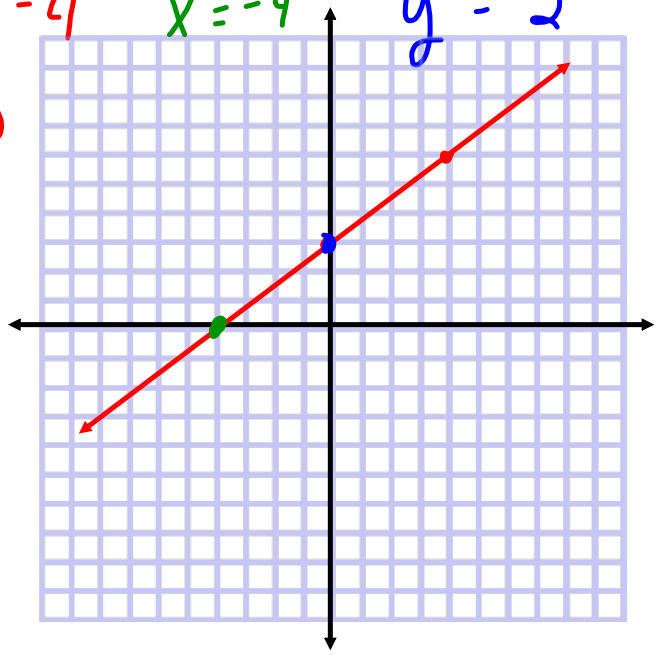
$m = \frac{3}{4} \quad b = 3$

$3x - 4y = -12$

X-INT Y-INT

$3x = -12 \quad -4y = -12$

$x = -4 \quad y = 3$



13) $2x + y = 8$

x-Int

$2x = 8$

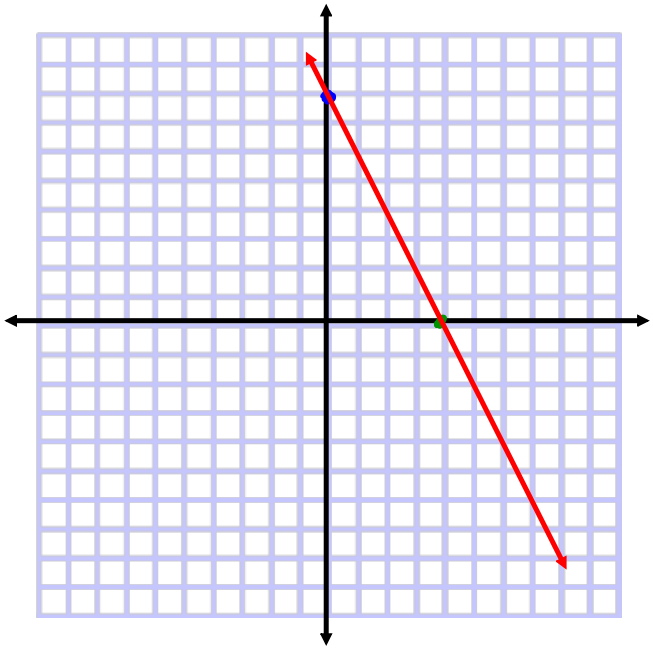
$x = 4$

$(4, 0)$

y-Int

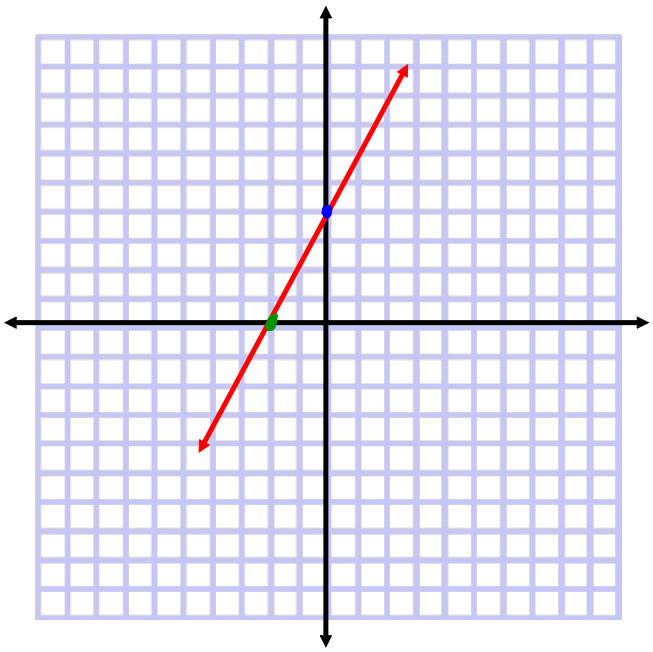
$y = 8$

$(0, 8)$



Nov 12-3:31 PM

14) $\frac{1}{3}x - \frac{1}{6}y = -\frac{2}{3}$



X-Int

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

$x = -2$

y-Int

$\frac{-\frac{1}{6}y}{-\frac{1}{6}} = \frac{-\frac{2}{3}}{-\frac{1}{4}}$

$y = 4$

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15) $4x - 5 = 11$

X-Int

Y-Int

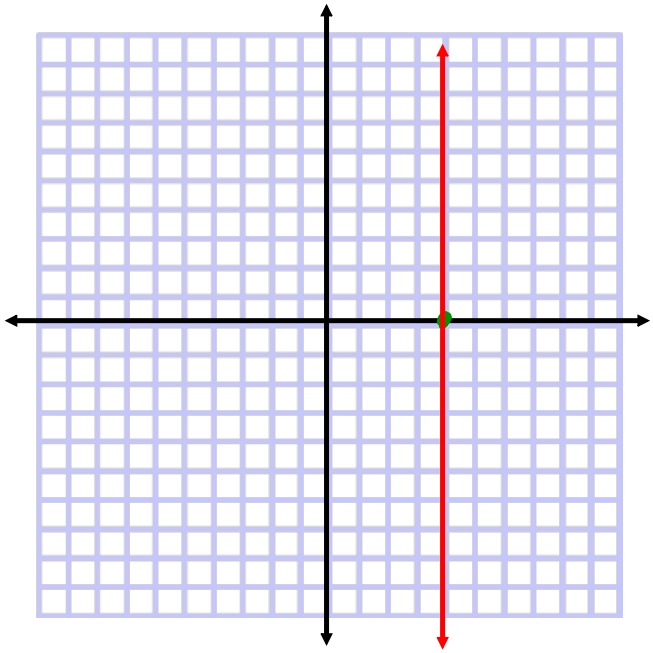
None

$4x - 5 = 11$

$+5 \quad +5$

$\frac{4x}{4} = \frac{16}{4}$

$x = 4$



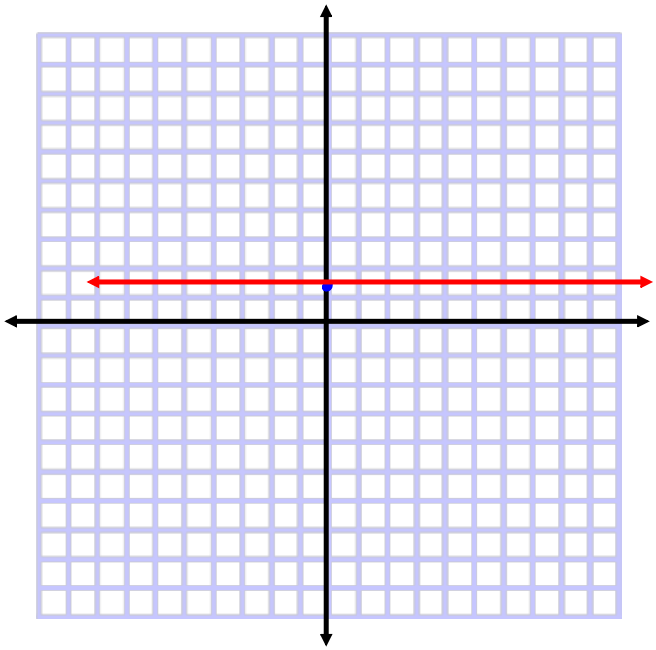
Nov 12-3:40 PM

16) $-16y = -24$

X-Int y-Int

None $\frac{-16y}{-16} = \frac{-24}{-16}$

$y = \frac{3}{2}$



Nov 12-3:40 PM

17) $-x + 8y = 2$

x-Int

$-x = 2$

$x = -2$

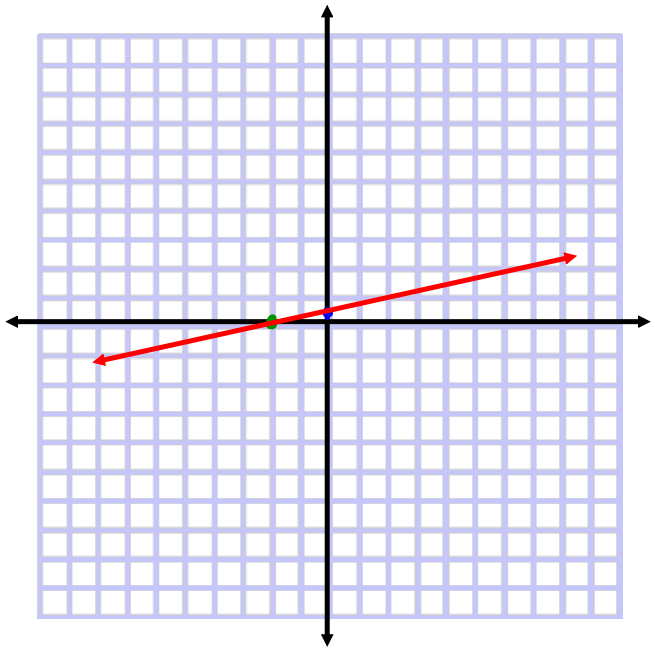
$(-2, 0)$

y-Int

$\frac{8y}{8} = \frac{2}{8}$

$y = \frac{1}{4}$ or .25

$(0, 1/4)$



Nov 12-3:40 PM

18) $-5x + 4y = 20$

X-Int

$-5x = 20$

$x = -4$

$(-4, 0)$

Y-Int

$4y = 20$

$y = 5$

$(0, 5)$

25) $y = 5x + 14$

$y = 3x + 20$

$5x + 14 = 3x + 20$

$-3x \quad -3x$

$2x + 14 = 20$

$-14 \quad -14$

$\frac{2x}{2} = \frac{6}{2}$

$x = 3$