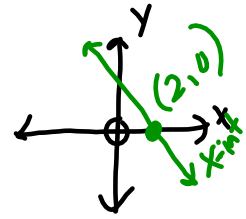


Finding x and y-intercepts

10/22

X-intercept - Where the graph crosses the x-axis ($y=0$)



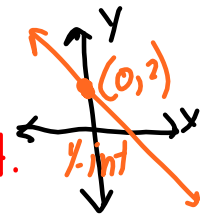
Answer is an Ordered Pair: $(x, 0)$

↑ the value of x-int.

Y-intercept - Where the graph crosses the y-axis ($x=0$)

Ordered Pair: $(0, y)$

↑ value of y-int.



Oct 17-10:43 AM

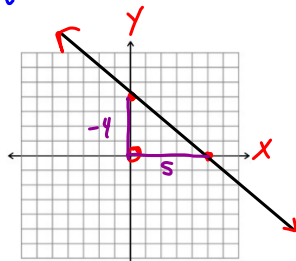
Examples:

$$4x + 5y = 20$$

X-int	Y-int
$4x = 20$ $\frac{4x}{4} = \frac{20}{4}$ $x = 5$ $(5, 0)$	$5y = 20$ $\frac{5y}{5} = \frac{20}{5}$ $y = 4$ $(0, 4)$

$$2x + y = 2$$

X-int	Y-int
$2x = 2$ $x = 1$ $(1, 0)$	$y = 2$ $(0, 2)$



$y = mx + b$

$$y = -\frac{4}{5}x + 4$$

$$4x + 5y = 20$$

$$\begin{array}{r} 4x + 5y = 20 \\ -4x = -4x \\ \hline 5y = -4x + 20 \\ \frac{5y}{5} = \frac{-4x + 20}{5} \\ y = -\frac{4}{5}x + 4 \end{array}$$

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$$x + y = 5$$

X-int	Y-int
$x = 5$	$y = 5$
$(5, 0)$	$(0, 5)$

$$y = 1/2x - 4$$

X-int	Y-int
$0 = \frac{1}{2}x - 4$ $+4 \quad +4$ <hr/> $4 = \frac{1}{2}x$ $\frac{1}{2} \quad \frac{1}{2}$ $x = 8$ $(8, 0)$	$y = -4$ $(0, -4)$

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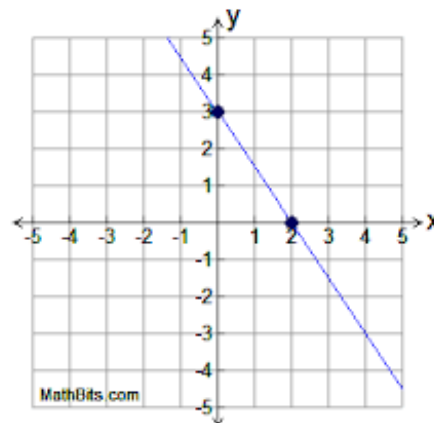
On Own:

①

$$7x + 3y = -21$$

X-int	Y-int
$7x = -21$	$3y = -21$
$x = -3$	$y = -7$
$(-3, 0)$	$(0, -7)$

②



X-int: $(2, 0)$
 Y-int: $(0, 3)$

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