

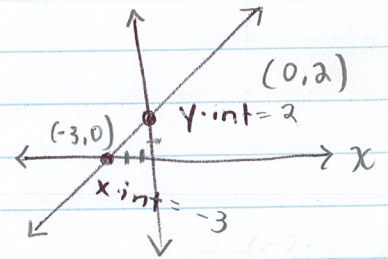
x + y Intercepts

① On a graph:

x-int - where the line/curve crosses the x-axis
- @ $(x, 0)$

y-int - where the line/curve crosses the y-axis
- @ $(0, y)$

* Just look @ the graph:



② In an Equation

x-int: sub. $y=0$ and solve for x

y-int: sub. $x=0$ and solve for y

Ex. Find x and y Intercepts.

a) $y = 0.5x - 1$

x-int ($y=0$) $0 = 0.5x - 1$
 $\frac{1}{0.5} = 0.5x$
 $\boxed{2 = x} \rightarrow (2, 0)$

y-int ($x=0$) $y = 0.5(0) - 1$
 $y = 0 - 1$
 $\boxed{y = -1} \rightarrow (0, -1)$

b) $y = x^2 - 36$

x-int: $0 = x^2 - 36$
 $36 = x^2 \quad x = \pm 6$
 $(6, 0)$
 $(-6, 0)$

y-int: $y = 0^2 - 36$
 $y = -36$
 $(0, -36)$