

Axis Intercepts of Linear Graphs (A)

Find the coordinates of the x -intercept and the y -intercept of $y = x + 3$.

$\underbrace{\hspace{1.5cm}}_{y=0}$ $\underbrace{\hspace{1.5cm}}_{x=0}$

$$x\text{-intercept : } 0 = x + 3$$

$$x = -3$$

$$(-3, 0)$$

$$y\text{-intercept : } y = 0 + 3$$

$$= 3$$

$$(0, 3)$$

Find the coordinates of the x -intercept and the y -intercept of $5x + 3y = 15$.

$\underbrace{\hspace{1.5cm}}_{y=0}$ $\underbrace{\hspace{1.5cm}}_{x=0}$

$$x\text{-intercept : } 5x + 3(0) = 15$$

$$5x = 15$$

$$x = 3$$

$$(3, 0)$$

$$y\text{-intercept : } 5(0) + 3y = 15$$

$$3y = 15$$

$$y = 5$$

$$(0, 5)$$