## Graphing Equations - Step-by-Step Lesson

Graph this function using intercepts:

x + y = 5

**Explanation:**

The x-intercept is the x-coordinate of the point where the graph crosses the x-axis.

The y-intercept is the y-coordinate of the point where the graph crosses the y-axis.

The x-intercept where y = 0 and solve for the x-intercept.

x + y  =      5

x + 0  =      5        Plug in y = 0

x        =      5        Simplify

So coordinates are (5, 0).

The y-intercept, where x = 0.solve for the y-intercept.

x + y  =      5

0 + y  =      5        Plug in x = 0

y        =      5        Simplify

So coordinates are (0, 5).
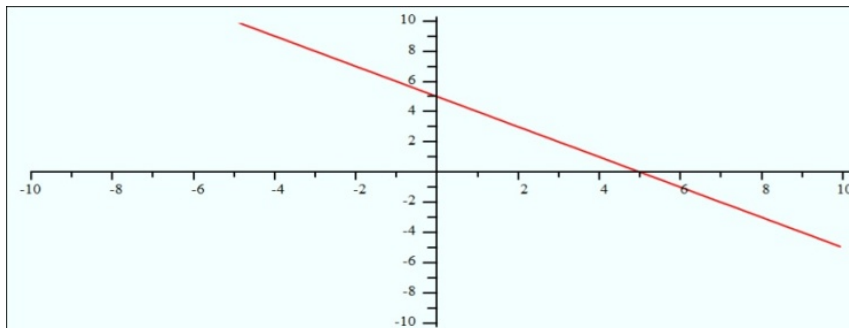


We draw the two intercepts on a graph and let a straight line pass straight through them.