

MATH TEST #1

LINEAR FUNCTION

Does (x,y) satisfy the linear equation?

A point (x,y) is a solution to an equation if plugging in x and y results in a true statement.

1. Is (1,2) a solution of the equation $y=2x$?

PLUG $X=1$ AND $Y=2$ INTO THE EQUATION AND SIMPLIFY
 $Y = 2X$

$2 \stackrel{?}{=} 2(1)$ PLUG IN $X=1$ AND $Y=2$

$2 \stackrel{?}{=} 2$ MULTIPLY

YES, $2 = 2$

SO, THE POINT $(2, 2)$ DOES SATISFY THE EQUATION $y=2x$

2. Is (1,0) a solution of the equation $y=2x$?

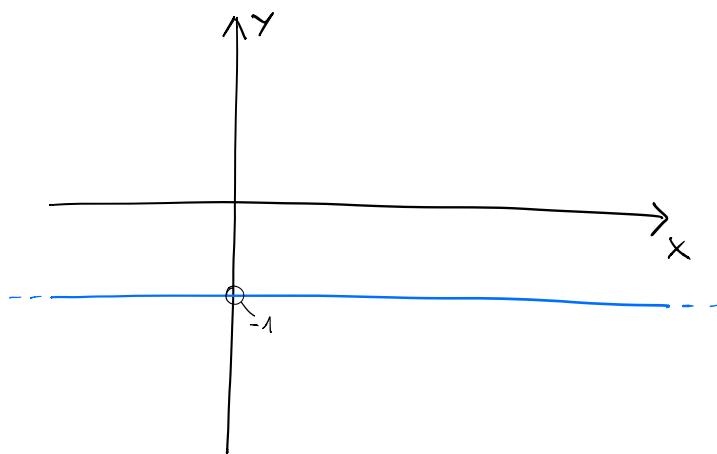
PLUG $X=1$ AND $Y=2$ INTO THE EQUATION AND SIMPLIFY
 $Y = 2X$

$0 \stackrel{?}{=} 2(1)$ PLUG IN $X=1$ AND $Y=0$
 $0 \stackrel{?}{=} 2$ PLUG IN $X=1$ AND $Y=2$

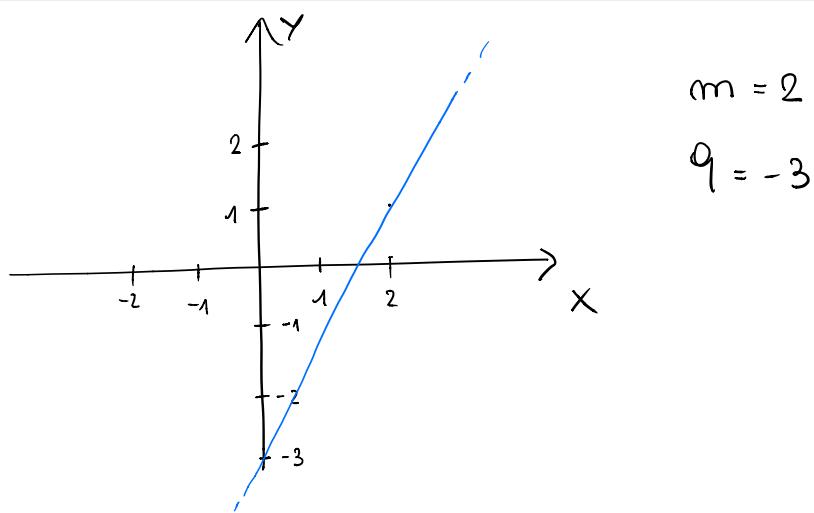
$0 \neq 2$

SO, THE POINT $(1, 0)$ DOES NOT SATISFY THE EQUATION $y=2x$

3. Draw the graph of the following linear equation: $y = -1$.



4. Draw the graph of the following linear equation: $y = 2x - 3$.



5. Draw the graph of the linear equation with an x-intercept of 5 and a y-intercept of 5.

