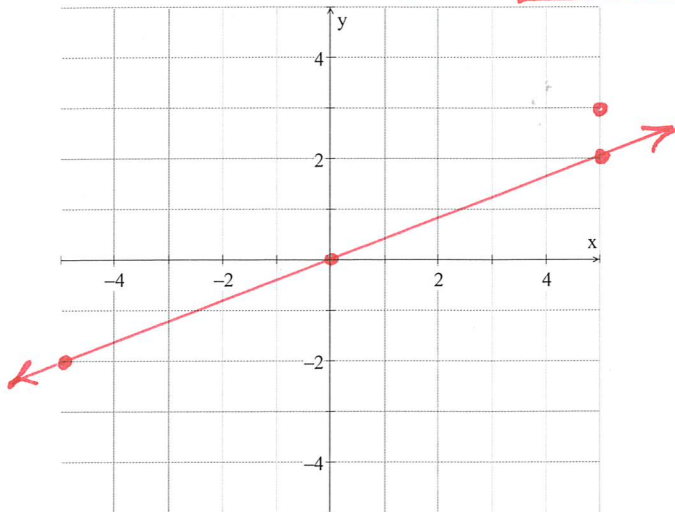


Determine if the given point is on the given line:

Graphically

Ex: $y = \frac{2}{5}x$; (5, 3)
x y

No!



Symbolically

$y = \frac{2}{5}x$; (5, 3)
x y

$y = \frac{2}{5}x$
 $(3) = \frac{2}{5}(5)$

$3 = \frac{2}{5} \cdot \frac{5}{1}$

$3 = \frac{10}{5}$

$3 = 2$ ← FALSE STATEMENT

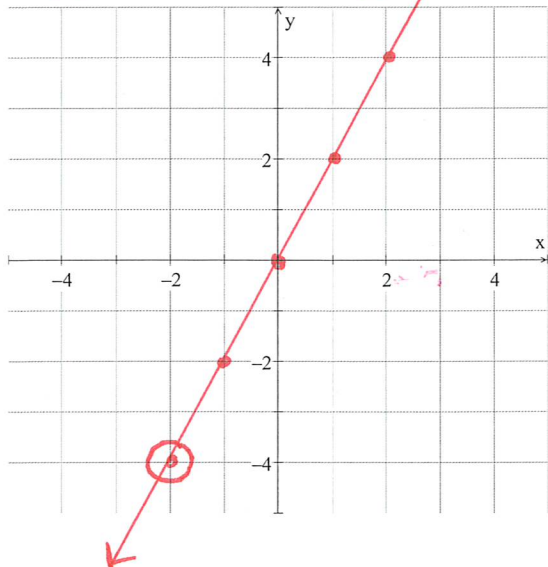
No!

Graphically

OYO: $y = 2x$; (-2, -4)
x y

RISE → RUN →

YES!



Symbolically

$y = 2x$; (-2, -4)
x y

$y = 2x$
 $(-4) = 2(-2)$

$-4 = -4$ ←

TRUE STATEMENT

YES!