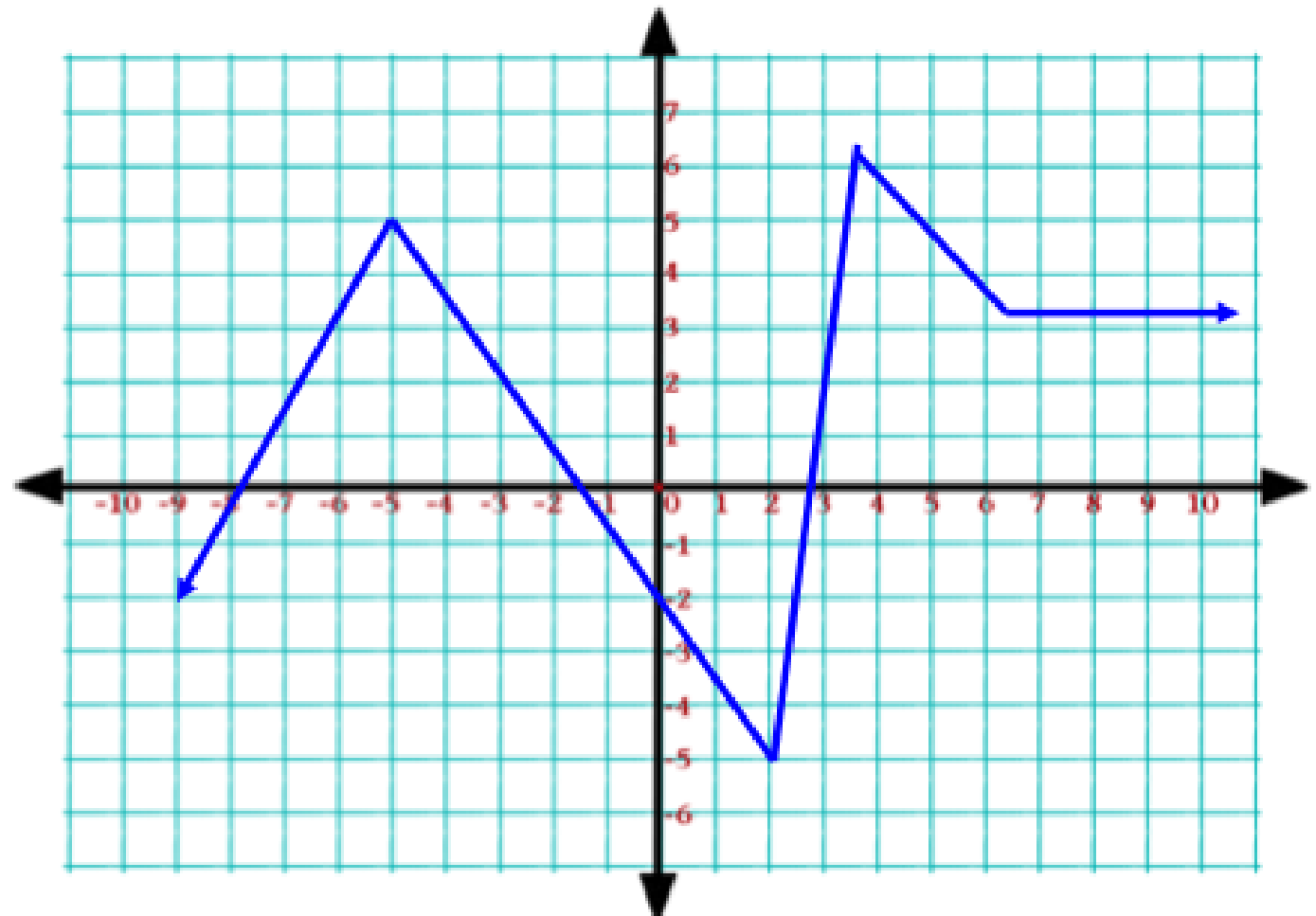




## Functions and Relations Review

1) Does the graph represent a function? Explain.



Yes. The graph passes the vertical line test.

2) Is height a function of age? Explain.

Age (yr)	13	14	13	15	14	16
Height (in)	50	51	50	56	58	54

No, input age 14 has two different outputs.

3) Evaluate the function when  $x = 3$ ,  $x = 0$ , and  $x = -2$ .

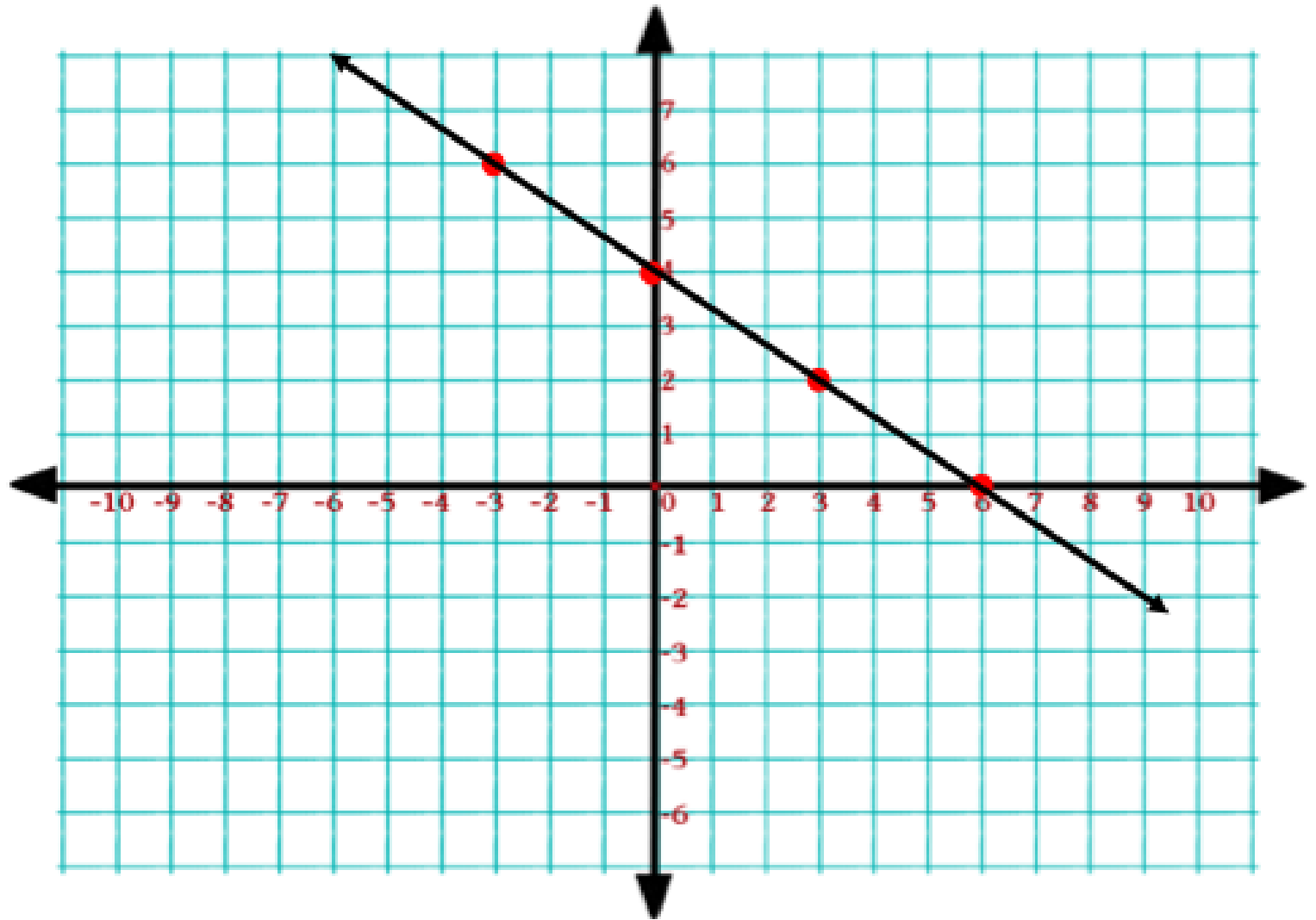
$$f(x) = 2x - 6$$

$$(3, 0)$$

$$(0, -6)$$

$$(-2, -10)$$

4) Graph the function  $h(x) = -\frac{2}{3}x + 4$



5) Find the slope of the function when  $f(-4) = 7$  and  $f(11) = -5$ .

$$\frac{7 - (-5)}{-4 - 11} = \frac{12}{-15}$$

Simplified slope =  $-\frac{4}{5}$