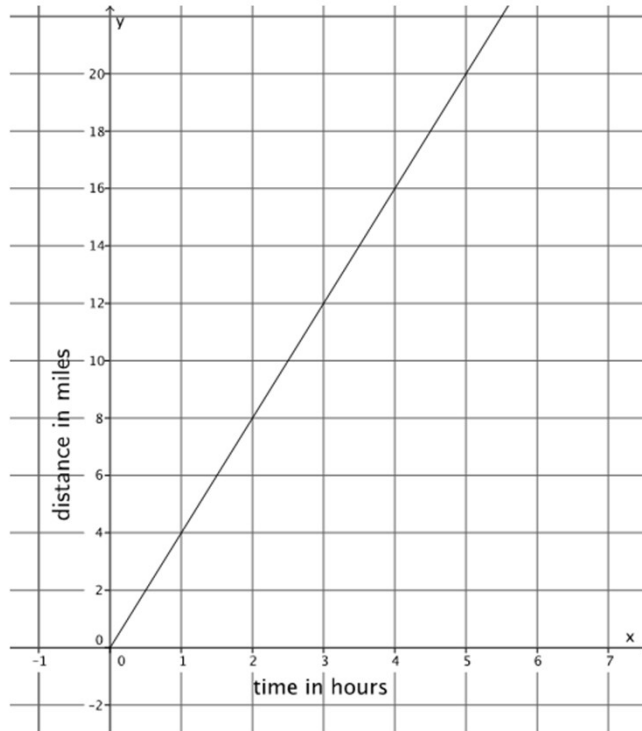


# Constant Rate and Linear Equation

1. The figure below represents Nathan's constant rate of walking.

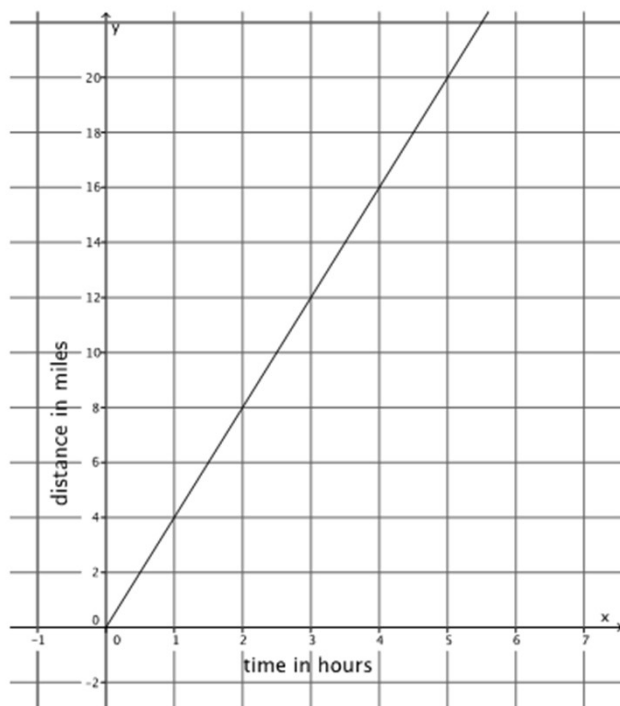


a) Nicole just finished a 5-mile walkathon. It took her 1.4 hours. Assume she walks at a constant rate. Let  $y$  represent the distance Nicole walks in  $x$  hours. Describe Nicole's walking at a constant rate as a linear equation in two variables.

c) Who walks at a greater speed? Explain.

## Constant Rate and Linear Equation

1. The figure below represents Nathan's constant rate of walking.



a) Nicole just finished a 5-mile walkathon. It took her 1.4 hours. Assume she walks at a constant rate. Let  $y$  represent the distance Nicole walks in  $x$  hours. Describe Nicole's walking at a constant rate as a linear equation in two variables.

$$\frac{y}{x} = \frac{5}{1.4} \Rightarrow y = \frac{25}{7}x$$

c) Who walks at a greater speed? Explain.

*Nathan walks at a greater speed. The slope of the graph for Nathan is 4, and the slope or rate for Nicole is  $\frac{25}{7}$ . When you compare the slopes, you see that  $4 > \frac{25}{7}$ .*

Go to [onlinemathlearning.com](https://www.onlinemathlearning.com) for more free math resources