



## 3-8 Solve It!



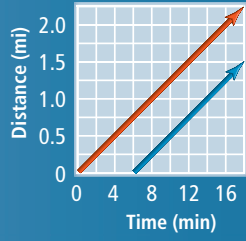


**Getting Ready!**

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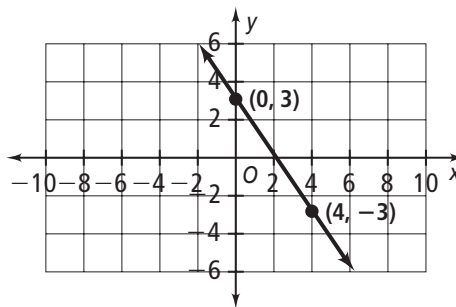
You and a friend enjoy exercising together. One day, you are about to go running when your friend receives a phone call. You decide to start running and tell your friend to catch up after the call. The red line represents you and the blue line represents your friend. Will your friend catch up? Explain.

Remember, slope is a rate of change.

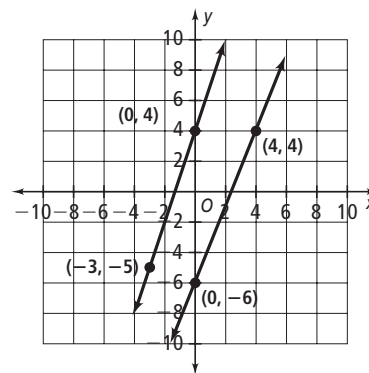


## 3-8 Lesson Quiz

Use the graph below for Questions 1 and 2.



1. What is an equation of the line that is parallel to the one shown and passes through  $(6, -5)$ ?
2. **Do you UNDERSTAND?** What is an equation of the line perpendicular to the one shown that passes through  $(-3, -4)$ ?
3. Are the lines shown below parallel? Explain.



### Answers

#### Solve It!

No; explanations may vary.  
 Sample: the slope of the lines represents the running rate.  
 The lines have the same slope.

You both run 8-min miles. Your friend would need to run at a faster rate to catch up.

#### Lesson Quiz

1.  $y = -\frac{3}{2}x + 4$
2.  $y = \frac{2}{3}x - 2$
3. No, the slopes are not the same.