

Lesson 7.4: Parallel and Perpendicular Lines

Complete the *Practice* below. When you have completed all the questions for *Lesson 7.4 Practice – IV* with your best work, mark your work by first comparing your answers to the solutions provided in the *Appendix*. Then, apply the rubric found at the beginning of the *Workbook*.



Practice – IV

1. Decide if each pair of lines is parallel, perpendicular, or neither. Explain your choice.
 - a. $y = 9x + 4$ and $18x - 2y + 13 = 0$

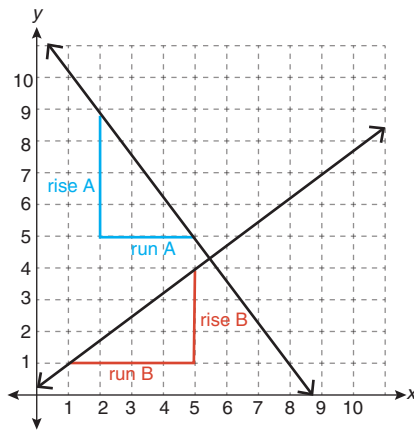
- b. $y - 7 = \frac{3}{2}(x + 5)$ and $y = \frac{2}{3}x$

- c. $y = 2.5x + 1$ and $y = -0.4x - 1$

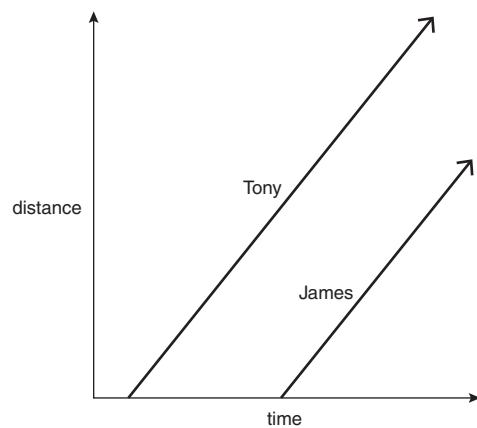
2. Line A passes through the points $(-1, -1)$ and $(5, 3)$. Line B passes through the points $(7, -5)$ and $(1, r)$. Determine a value of r such that the two lines are
- a. parallel

- b. perpendicular

3. The grid shows two perpendicular lines. Use the information provided on the grid to show that the slopes of the lines have a product of -1 .



4. Tony and James both walked home from school, as shown in the graph provided.



- a. Describe a scenario that would lead to this graph.

b. The two lines in the graph are parallel. Explain what this means in the given context.

c. Suppose the two lines were not parallel. Would this guarantee that James and Tony will meet? Explain.

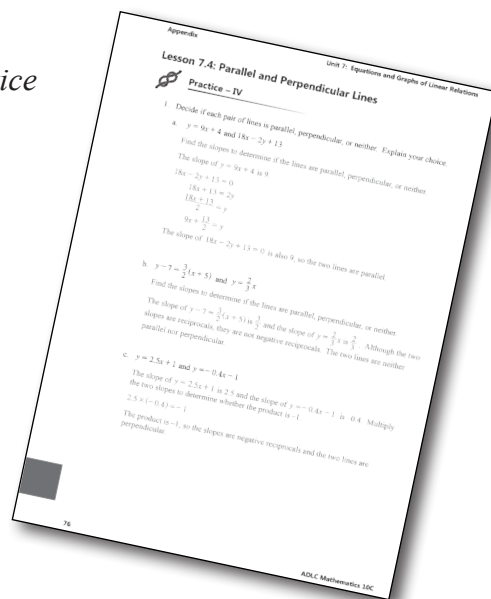
Mark your work for *Lesson 7.4 Practice – IV* using the solutions provided in the *Appendix*. Then, apply the rubric found at the beginning of the *Workbook*.

Transfer your self-assessed mark to the front cover of the *Workbook*.

My self-assessed mark on *Lesson 7.4 Practice – IV* is _____.

Reflect on your understanding of the concepts addressed in the *Practice* exercises in the table provided.

Question Number	Got it!	Almost there...	Need to retry or ask for help.
1			
2			
3			
4			



You may proceed to *Explore Your Understanding Assignment* on the next page of this *Workbook*.

Note: Before you complete *Explore Your Understanding*, you may review your skills and get more practice by completing the following problems in *Mathematics 10*.

- Page 390, #1a, 1c, 1e, 1g, 2a, 2c, 3, 4a, 5a, 5c, 5e, 6a, 7a, 9, 11, and 17

Check your work in *Enhance Your Understanding*.

