

Module 6 Lesson 3

Math Lab: Parallel and Perpendicular Lines **Possible Solutions**

Part A: Parallel Lines

The student will find that the slopes of the two edges of the ruler are equal.

Analysis

1. The two edges of the ruler are parallel.
2. The slopes are equal.
3. Results should be similar to the first trial.
4. The student should be able to conclude that **parallel lines have the same slope.**

Part B: Perpendicular Lines

5. The corner of an index card forms a right angle. The student can verify that it is a right angle by using a protractor.
6. The slopes of the two lines have opposite signs and are reciprocals of each other.
7. Results should be similar to the first trial.
8. The student should be able to conclude that **perpendicular lines have slopes that are negative reciprocals.**