

Module 7 Lesson 5

Try This 9 - 12

TT 9. Take another look at the three graphs shown in the lesson. This time, study the slopes and the y -intercepts of each graph in the system. For each system, indicate whether the slopes are equal or unequal and whether the y -intercepts are equal or unequal.

	Intersecting Lines	Parallel Lines	Coincident Lines
Slopes			
y -intercepts			

TT 10. Compare the table that you completed for TT 5 to the one that you just completed for TT 9. Match Systems A, B, and C to the three systems—intersecting lines, parallel lines, and coincident lines—of TT 9.

TT 11. You may work with a partner to complete this question. Discuss with your partner the following questions based on your tables, and record your answers.

- How do you know if a system has only one solution?
- If a system has slopes that are equal, what number of solutions is possible?
- If a system has y -intercepts that are equal, what number of solutions is possible?

TT 12. You may work with your partner or you may work on your own to complete this question. Construct a flow chart that shows how you can identify the number of solutions of a linear system by first considering the slope of each equation and then considering the y -intercept of each equation.

Keep a copy of the flow chart handy for the Self-Check that is coming up in the lesson.