Lesson 7.5

Graphing Calculator Lesson Opener

For use with pages 425–431

**Enter the linear system into your calculator.
Describe the two lines graphed and the solution.**

1. $x + y = 3$
$2x + y = 2$

2. $x - 2y = -6$
$-2x + 4y = 12$

3. $3x + y = 1$
$3x + y = -2$

4. $x - y = -2$
$x - y = 3$

5. $2x - y = 3$
$3x + y = 1$

6. $x - 3y = 2$
$3y - x = -2$

7. $2x - 4y = 6$
$x - 2y = 3$

8. $2x - y = 3$
$3x + y = 1$

9. Which systems have one solution? What is true about the graphs of these linear systems?

10. Which systems have no solutions? What is true about the graphs of these linear systems?

11. Which systems have infinitely many solutions? What is true about the graphs of these linear systems?

12. Make a conjecture about the graph of a linear system and its solution.