

**LESSON** **Practice B**  
**6-4 Solving Special Systems**

Solve each system of linear equations.

1. 
$$\begin{cases} y = 2x - 3 \\ y - 2x = -3 \end{cases}$$

2. 
$$\begin{cases} 3x + y = 4 \\ -3x = y - 7 \end{cases}$$

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3. 
$$\begin{cases} y = -4x + 1 \\ 4x = -y - 6 \end{cases}$$

4. 
$$\begin{cases} y - x + 3 = 0 \\ x = y + 3 \end{cases}$$

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Classify each system. Give the number of solutions.

5. 
$$\begin{cases} y = 3(x - 1) \\ -y + 3x = 3 \end{cases}$$

6. 
$$\begin{cases} y - 2x = 5 \\ x = y - 3 \end{cases}$$

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7. Sabina and Lou are reading the same book. Sabina reads 12 pages a day. She had read 36 pages when Lou started the book, and Lou reads at a pace of 15 pages per day. If their reading rates continue, will Sabina and Lou ever be reading the same page on the same day? Explain.

8. Brandon started jogging at 4 miles per hour. After he jogged 1 mile, his friend Anton started jogging along the same path at a pace of 4 miles per hour. If they continue to jog at the same rate, will Anton ever catch up with Brandon? Explain.

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