

**LESSON**  
**3.4****Practice A**

For use with pages 154–160

**Describe each step used in solving the equation.**

- |                               |                               |                               |
|-------------------------------|-------------------------------|-------------------------------|
| <b>1.</b> $10x - 7 = 4x + 5$  | <b>2.</b> $3x + 6 = -2x + 11$ | <b>3.</b> $6(3x - 4) = 12$    |
| <b>A.</b> $6x - 7 = 5$        | <b>A.</b> $5x + 6 = 11$       | <b>A.</b> $18x - 24 = 12$     |
| <b>B.</b> $6x = 12$           | <b>B.</b> $5x = 5$            | <b>B.</b> $18x = 36$          |
| <b>C.</b> $x = 2$             | <b>C.</b> $x = 1$             | <b>C.</b> $x = 2$             |
| <b>4.</b> $6(x + 3) = 5x + 8$ | <b>5.</b> $4(x - 2) = 7x + 1$ | <b>6.</b> $2x + 2 = 4(x - 5)$ |
| <b>A.</b> $6x + 18 = 5x + 8$  | <b>A.</b> $4x - 8 = 7x + 1$   | <b>A.</b> $2x + 2 = 4x - 20$  |
| <b>B.</b> $x + 18 = 8$        | <b>B.</b> $-8 = 3x + 1$       | <b>B.</b> $2 = 2x - 20$       |
| <b>C.</b> $x = -10$           | <b>C.</b> $-9 = 3x$           | <b>C.</b> $22 = 2x$           |
|                               | <b>D.</b> $-3 = x$            | <b>D.</b> $11 = x$            |

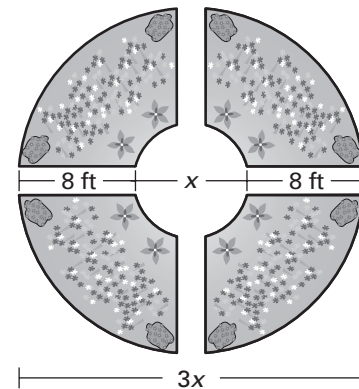
**Solve the equation and describe each step you use.**

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|-----------------------------|------------------------------|---------------------------|
| <b>7.</b> $6p - 3 = 4p - 1$ | <b>8.</b> $10a - 2 = 7a + 4$ | <b>9.</b> $5(m + 2) = 20$ |
|-----------------------------|------------------------------|---------------------------|

**Solve the equation, if possible.**

- |                               |                               |                                |
|-------------------------------|-------------------------------|--------------------------------|
| <b>10.</b> $9x - 2 = 8x + 7$  | <b>11.</b> $5n - 3 = 3n + 1$  | <b>12.</b> $4z - 5 = 8z + 3$   |
| <b>13.</b> $-a + 4 = a + 6$   | <b>14.</b> $w + 8 = w - 3$    | <b>15.</b> $2(y - 3) = y + 4$  |
| <b>16.</b> $3(m + 2) = 8 + m$ | <b>17.</b> $6 + x = 6(x - 5)$ | <b>18.</b> $7(b + 3) = 7b - 4$ |

- 19. Dimensions of a Circular Flower Garden** A flower garden has the shape shown. The diameter of the outer circle is three times the diameter of the inner circle. The lengths of the walkways are 8 feet long. What is the diameter of the inner circle?



- 20. Distance-Rate-Time** Two cars travel the same distance. The first car travels at a rate of 50 miles per hour and reaches its destination in  $t$  hours. The second car travels at a rate of 60 miles per hour and reaches its destination 1 hour earlier than the first car. How long does it take for the first car to reach its destination?

Rate of car 1	·	Time for car 1	=	Rate of car 2	·	Time for car 2
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