1. Find the two solutions of
   \[(x + 3)^2 = 49\]
   using the square root property.

2. Solve the equation
   \[x^2 = 5\]
   using the square root property.

3. Simplify using the imaginary unit \(i\):
   \[\sqrt{-9}\]

4. Simplify the following expression containing the imaginary unit \(i\):
   \[(3 + 4i)^2\]

5. Which of the following is true about the graph of \(y = x^2 - 4x + 8\)
   (circle the correct statement)

   \[\text{it is a parabola opening upward} \quad \text{it is a parabola opening downward}\]
6. Use the quadratic formula to solve the equation $3x^2 + 4x - 5 = 0$.

7–9. Solve each equation by the method of your choice:

7. $x^2 = -9x$  
8. $x^2 = x + 20$  
9. $5x^2 = 4x - 1$
10–11. Complete the square in each of the following problems by filling in the blanks:

(10) $x^2 - 8x + \_\_ = (x - \_\_)^2$

(11) $x^2 + 3x + \_\_ = (x + \_\_)^2$

12. Solve the equation $x^2 - 8x = 3$ using the method of completing the square.
13. Sketch a graph of \( y = x^2 - 4x + 3 \).