
9-5 Completing the Square

Answer each question as directed.

1. Find the missing value and complete the square:

$$x^2 + 18x + \underline{\quad} = (\underline{\quad})^2$$

2. Find the missing value and complete the square

$$x^2 - \underline{\quad}x + 36 = (\underline{\quad})^2$$

Solve each quadratic equation by completing the square. Express your answer in simplest radical form.

3. $x^2 - 4x - 30 = 0$

4. $x^2 + 59 = -16x$

5. $4x^2 - 8x - 24 = 0$
