

Solving quadratics — Both forms

Name: _____

Date: _____

Solve each equation. Write the two values of x .

1 $(x + 4)(x + 19) = 0$ $x = \underline{\hspace{2cm}}$ or $x = \underline{\hspace{2cm}}$

2 $x^2 - 27x + 176 = 0$ $x = \underline{\hspace{2cm}}$ or $x = \underline{\hspace{2cm}}$

3 $(x + 16)(x - 4) = 0$ $x = \underline{\hspace{2cm}}$ or $x = \underline{\hspace{2cm}}$

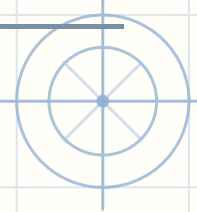
4 $(x + 20)(x + 11) = 0$ $x = \underline{\hspace{2cm}}$ or $x = \underline{\hspace{2cm}}$

5 $(x - 1)(x - 13) = 0$ $x = \underline{\hspace{2cm}}$ or $x = \underline{\hspace{2cm}}$

6 $x^2 + 2x - 195 = 0$ $x = \underline{\hspace{2cm}}$ or $x = \underline{\hspace{2cm}}$

7 $x^2 + 16x + 39 = 0$ $x = \underline{\hspace{2cm}}$ or $x = \underline{\hspace{2cm}}$

8 $(x - 18)(x + 2) = 0$ $x = \underline{\hspace{2cm}}$ or $x = \underline{\hspace{2cm}}$



Solving quadratics · Both forms — Answer key

1. $(x + 4)(x + 19) = 0 \rightarrow (x + 4)(x + 19) = 0 \rightarrow x = -4$ or $x = -19$

5. $(x - 1)(x - 13) = 0 \rightarrow (x - 1)(x - 13) = 0 \rightarrow x = 1$ or $x = 13$

2. $x^2 - 27x + 176 = 0 \rightarrow (x - 16)(x - 11) = 0 \rightarrow x = 16$ or $x = 11$

6. $x^2 + 2x - 195 = 0 \rightarrow (x + 15)(x - 13) = 0 \rightarrow x = -15$ or $x = 13$

3. $(x + 16)(x - 4) = 0 \rightarrow (x + 16)(x - 4) = 0 \rightarrow x = -16$ or $x = 4$

7. $x^2 + 16x + 39 = 0 \rightarrow (x + 3)(x + 13) = 0 \rightarrow x = -3$ or $x = -13$

4. $(x + 20)(x + 11) = 0 \rightarrow (x + 20)(x + 11) = 0 \rightarrow x = -20$ or $x = -11$

8. $(x - 18)(x + 2) = 0 \rightarrow (x - 18)(x + 2) = 0 \rightarrow x = 18$ or $x = -2$

