

The Quadratic Formula *fluency*

ANSWERS



Solve. Give your answers to 2 decimal places.

1 $x^2 + 5x + 3 = 0$ $x = -4.30$
 $x = -0.70$

2 $x^2 + 7x + 2 = 0$ $x = -6.70$
 $x = -0.30$

3 $x^2 - 4x + 1 = 0$ $x = 0.27$
 $x = 3.73$

4 $x^2 + 3x - 5 = 0$ $x = -4.19$
 $x = 1.19$

5 $x^2 - 6x - 2 = 0$ $x = -0.32$
 $x = 6.32$

6 $x^2 + x - 1 = 0$ $x = -1.62$
 $x = 0.62$



Solve. Give your answers to 2 decimal places.

7 $2x^2 + 7x + 4 = 0$ $x = -2.78$
 $x = -0.72$

8 $3x^2 - 5x + 1 = 0$ $x = 0.23$
 $x = 1.43$

9 $2x^2 + 3x - 6 = 0$ $x = -2.64$
 $x = 1.14$

10 $5x^2 + 2x - 1 = 0$ $x = -0.69$
 $x = 0.29$

11 $3x^2 + 8x - 2 = 0$ $x = -2.90$
 $x = 0.23$

12 $4x^2 - 9x + 3 = 0$ $x = 0.41$
 $x = 1.84$



Solve. Give your answers to 2 decimal places.

13 $-x^2 + 4x + 3 = 0$ $x = -0.65$
 $x = 4.65$

14 $3x^2 - 10 = 0$ $x = -1.83$
 $x = 1.83$

15 $-2x^2 + 3x + 4 = 0$ $x = -0.85$
 $x = 2.35$

16 $1 - 4x - 2x^2 = 0$ $x = -2.22$
 $x = 0.22$

17 $7 + 2x - x^2 = 0$ $x = -1.83$
 $x = 3.83$

18 $2x^2 + 9x = 1$ $x = -4.61$
 $x = 0.11$



Solve. Give your answers to 2 decimal places.

19 $x^2 = 3x + 5$ $x = -1.19$
 $x = 4.19$

20 $2x^2 + 3 = 9x$ $x = 0.36$
 $x = 4.14$

21 $x(x + 4) = 7$ $x = -5.32$
 $x = 1.32$

22 $3x^2 = 2 - 4x$ $x = -1.72$
 $x = 0.39$

23 $(x + 1)^2 = 6$ $x = -3.45$
 $x = 1.45$

24 $x(2x - 3) = 4$ $x = -0.85$
 $x = 2.35$



Solve. Give your answers to 2 decimal places.

25 $0.5x^2 + 3x - 1 = 0$ $x = -6.32$
 $x = 0.32$

26 $x^2 - 2.5x + 1.2 = 0$ $x = 0.65$
 $x = 1.85$

27 $(x - 2)(x + 3) = 5$ $x = -3.85$
 $x = 2.85$

28 $2x(x - 1) = 5 - x$ $x = -1.35$
 $x = 1.85$

29 $0.2x^2 - x - 2 = 0$ $x = -1.53$
 $x = 6.53$

30 $(2x + 1)^2 = 3x + 5$ $x = -1.13$
 $x = 0.88$