

Use the quadratic formula to solve the equation.

1. $3x^2 - 12x - 15 = 0$ [A] -2 [B] 2 [C] $5, -1$ [D] $-5, 1$
2. $6x^2 + 41x + 30 = 0$ [A] $\frac{2}{3}, -\frac{15}{2}$ [B] $\frac{5}{6}, 6$ [C] $-\frac{2}{3}, \frac{15}{2}$ [D] $-\frac{5}{6}, -6$
3. $4x^2 - 7x - 2 = 0$ [A] $\frac{11}{8}, \frac{3}{8}$ [B] $2, -\frac{1}{4}$ [C] $-\frac{11}{8}, -\frac{3}{8}$ [D] $-2, \frac{1}{4}$
4. $5x^2 - 17x + 6 = 0$ [A] $-3, -\frac{2}{5}$ [B] $-\frac{37}{10}, \frac{3}{10}$ [C] $3, \frac{2}{5}$ [D] $\frac{37}{10}, -\frac{3}{10}$
5. $2x^2 + 6x + 4 = 0$ [A] $-\frac{1}{2}, \frac{7}{2}$ [B] $\frac{1}{2}, -\frac{7}{2}$ [C] $-1, -2$ [D] $1, 2$
6. $3x^2 + 12x + 12 = 0$ [A] $-\frac{5}{6}, \frac{29}{6}$ [B] 2 [C] $\frac{5}{6}, -\frac{29}{6}$ [D] -2
7. $4x^2 + 21x + 20 = 0$ [A] $\frac{7}{8}, -\frac{49}{8}$ [B] $-\frac{5}{4}, -4$ [C] $\frac{5}{4}, 4$ [D] $-\frac{7}{8}, \frac{49}{8}$
8. $5x^2 - 26x + 5 = 0$ [A] $-\frac{27}{5}, \frac{1}{5}$ [B] $\frac{27}{5}, -\frac{1}{5}$ [C] $5, \frac{1}{5}$ [D] $-5, -\frac{1}{5}$
9. $2x^2 - 4x + 2 = 0$ [A] $-\frac{5}{2}, \frac{1}{2}$ [B] -1 [C] $\frac{5}{2}, -\frac{1}{2}$ [D] 1
10. $3x^2 + 14x - 24 = 0$ [A] $-\frac{7}{3}$ [B] $\frac{7}{3}$ [C] $-\frac{4}{3}, 6$ [D] $\frac{4}{3}, -6$
11. $2x^2 + 3x - 1 = 0$ [A] $\frac{3 \pm \sqrt{17}}{4}$ [B] $\frac{-3 \pm \sqrt{2}}{4}$ [C] $\frac{-3 \pm \sqrt{17}}{4}$ [D] $\frac{3 \pm \sqrt{2}}{4}$
12. $x^2 + 7x - 1 = 0$
[A] $\frac{7 \pm \sqrt{45}}{2}$ [B] $\frac{-7 \pm \sqrt{45}}{2}$ [C] $\frac{-7 \pm \sqrt{53}}{2}$ [D] $\frac{7 \pm \sqrt{53}}{2}$

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13. $2x^2 - 5x - 1 = 0$

[A] $\frac{-5 \pm \sqrt{33}}{4}$ [B] $\frac{-5 \pm \sqrt{17}}{4}$ [C] $\frac{5 \pm \sqrt{33}}{4}$ [D] $\frac{5 \pm \sqrt{17}}{4}$

14. $2x^2 + 5x + 1 = 0$

[A] $\frac{5 \pm \sqrt{33}}{4}$ [B] $\frac{-5 \pm \sqrt{17}}{4}$ [C] $\frac{5 \pm \sqrt{17}}{4}$ [D] $\frac{-5 \pm \sqrt{33}}{4}$

15. $x^2 - 3x - 1 = 0$ [A] $\frac{-3 \pm \sqrt{5}}{2}$ [B] $\frac{3 \pm \sqrt{5}}{2}$ [C] $\frac{3 \pm \sqrt{13}}{2}$ [D] $\frac{-3 \pm \sqrt{13}}{2}$

16. $x^2 - 5x + 1 = 0$ [A] $\frac{5 \pm \sqrt{21}}{2}$ [B] $\frac{5 \pm \sqrt{29}}{2}$ [C] $\frac{-5 \pm \sqrt{21}}{2}$ [D] $\frac{-5 \pm \sqrt{29}}{2}$

17. $2x^2 + 7x + 1 = 0$

[A] $\frac{-7 \pm \sqrt{57}}{4}$ [B] $\frac{-7 \pm \sqrt{41}}{4}$ [C] $\frac{7 \pm \sqrt{41}}{4}$ [D] $\frac{7 \pm \sqrt{57}}{4}$

18. $x^2 + 5x + 1 = 0$ [A] $\frac{5 \pm \sqrt{29}}{2}$ [B] $\frac{-5 \pm \sqrt{21}}{2}$ [C] $\frac{-5 \pm \sqrt{29}}{2}$ [D] $\frac{5 \pm \sqrt{21}}{2}$

19. $2x^2 - 7x - 1 = 0$

[A] $\frac{7 \pm \sqrt{57}}{4}$ [B] $\frac{7 \pm \sqrt{41}}{4}$ [C] $\frac{-7 \pm \sqrt{41}}{4}$ [D] $\frac{-7 \pm \sqrt{57}}{4}$

20. $2x^2 - 3x - 1 = 0$ [A] $\frac{-3 \pm \sqrt{2}}{4}$ [B] $\frac{3 \pm \sqrt{2}}{4}$ [C] $\frac{-3 \pm \sqrt{17}}{4}$ [D] $\frac{3 \pm \sqrt{17}}{4}$

21. $3x^2 - 2x - 5 = 0$

22. $4x^2 + 3x - 10 = 0$

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23. $5x^2 + 17x - 12 = 0$

24. $3x^2 + 11x - 20 = 0$

25. $2x^2 + x - 15 = 0$

26. $2x^2 - x - 3 = 0$

27. $3x^2 + 4x - 4 = 0$

28. $5x^2 + 16x - 16 = 0$

29. $5x^2 + 23x - 10 = 0$

30. $3x^2 + 4x - 15 = 0$

31. $4x^2 - x - 5 = 0$

32. $5x^2 + 7x - 6 = 0$

33. $3x^2 + 8x - 16 = 0$

34. $2x^2 + 5x - 25 = 0$

35. $2x^2 + 3x - 9 = 0$

36. $4x^2 - 11x = 1$

37. $3x^2 - 7x = 5$

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38. $2x^2 - 5x = 2$

39. $5x^2 - 11x = 5$

40. $7x^2 + 9x = 2$

41. $8x^2 + 11x = -1$

42. $4x^2 - 7x = 3$

43. $7x^2 + 3x = 1$

44. $2x^2 + 11x = 5$

45. $4x^2 + 3x = 4$