Which are the solutions to the given equation? Answers are rounded to the nearest hundredth when necessary.

1. $x^2 + 2x - 6 = 0$

   [A] –3.80, 1.65 [B] –3.65, 1.65 [C] –3.80, 1.76 [D] –3.65, 1.76

2. $x^2 + 8x - 20 = 0$ [A] –8, 20 [B] 10, –2 [C] –10, 2 [D] 8, –20

3. $x^2 + 2x - 15 = 0$ [A] –2, 15 [B] 5, –3 [C] –5, 3 [D] 2, –15

4. $x^2 - 6x - 1 = 0$

   [A] –0.01, 6.16 [B] –0.16, 6.27 [C] –0.01, 6.27 [D] –0.16, 6.16

5. $x^2 + 2x - 48 = 0$ [A] –2, 48 [B] 2, –48 [C] 8, –6 [D] –8, 6

6. $x^2 + x - 42 = 0$ [A] 6, 7 [B] –6, 7 [C] –7, 6 [D] –7, –6

7. $x^2 + 4x - 21 = 0$ [A] 3, 7 [B] –3, 7 [C] –7, –3 [D] –7, 3

8. $x^2 + x - 72 = 0$ [A] –9, 8 [B] 8, 9 [C] –8, 9 [D] –9, –8

9. $x^2 + 2x = 0$ [A] 0, 0 [B] –1, 0 [C] –2, –1 [D] –2, 0

10. $x^2 + 9x + 20 = 0$ [A] –5, –4 [B] –4, 5 [C] 4, 5 [D] –5, 4

11. $x^2 + 9x + 8 = 0$ [A] –1, 8 [B] 1, 8 [C] –8, –1 [D] –8, 1

12. $x^2 + 4x = 0$ [A] –4, –1 [B] –3, 0 [C] –2, 0 [D] –4, 0

13. $x^2 - 4x - 21 = 0$ [A] 3, 7 [B] –7, 3 [C] –7, –3 [D] –3, 7

14. $x^2 + 11x + 18 = 0$ [A] –9, –2 [B] 2, 9 [C] –9, 2 [D] –2, 9

15. $x^2 - 6x + 5 = 0$ [A] –5, 1 [B] –1, 5 [C] –5, –1 [D] 1, 5

16. Solve the equation by factoring: $x^2 + 5x - 6 = 0$

17. Solve the equation by factoring: $x^2 + x - 20 = 0$

18. Solve the equation by factoring: $x^2 - 3x - 10 = 0$

19. Solve the equation by factoring: $x^2 - x - 2 = 0$

20. Solve the equation by factoring: $x^2 + 3x - 4 = 0$

21. Solve the equation by factoring: $x^2 + 2x - 24 = 0$

22. Solve the equation by factoring: $x^2 - x - 6 = 0$

23. Solve the equation by factoring: $x^2 + x - 6 = 0$

24. Solve the equation by factoring: $x^2 + x - 30 = 0$

25. Solve the equation by factoring: $x^2 + 2x - 15 = 0$

Use the quadratic formula to solve the equation. Give exact answers.

26. $4x^2 + 9x - 9 = 0$ [A] $\frac{3}{4}, 3$ [B] $-\frac{3}{4}, 3$ [C] $\frac{3}{4}, -3$ [D] $-\frac{3}{4}, -3$

27. $4x^2 - 13x - 35 = 0$ [A] $-5, \frac{7}{4}$ [B] $5, \frac{7}{4}$ [C] $-5, -\frac{7}{4}$ [D] $5, -\frac{7}{4}$

28. $8x^2 - 2x - 15 = 0$ [A] $-\frac{3}{2}, \frac{5}{4}$ [B] $\frac{3}{2}, \frac{5}{4}$ [C] $-\frac{3}{2}, -\frac{5}{4}$ [D] $\frac{3}{2}, -\frac{5}{4}$

29. $2x^2 + 5x - 25 = 0$ [A] $\frac{5}{2}, 5$ [B] $-\frac{5}{2}, 5$ [C] $-\frac{5}{2}, -5$ [D] $\frac{5}{2}, -5$

Use the quadratic formula to solve the equation. Give exact answers.

30. $4x^2 - 21x - 49 = 0$ [A] $7, \frac{7}{4}$ [B] $7, -\frac{7}{4}$ [C] $-7, -\frac{7}{4}$ [D] $-7, \frac{7}{4}$

31. $2x^2 + 3x - 35 = 0$ [A] $\frac{7}{2}, -5$ [B] $-\frac{7}{2}, 5$ [C] $-\frac{7}{2}, -5$ [D] $\frac{7}{2}, 5$

32. $4x^2 - 25x - 21 = 0$ [A] $-7, \frac{3}{4}$ [B] $7, -\frac{3}{4}$ [C] $7, \frac{3}{4}$ [D] $-7, -\frac{3}{4}$

33. $8x^2 - 14x - 15 = 0$ [A] $-\frac{5}{2}, -\frac{3}{4}$ [B] $\frac{5}{2}, -\frac{3}{4}$ [C] $\frac{5}{2}, \frac{3}{4}$ [D] $-\frac{5}{2}, \frac{3}{4}$

34. $2x^2 + 7x - 49 = 0$ [A] $\frac{7}{2}, 7$ [B] $-\frac{7}{2}, -7$ [C] $-\frac{7}{2}, 7$ [D] $\frac{7}{2}, -7$

35. $4x^2 - 17x - 15 = 0$ [A] $-5, \frac{3}{4}$ [B] $5, -\frac{3}{4}$ [C] $-5, -\frac{3}{4}$ [D] $5, \frac{3}{4}$

36. $6x^2 - 11x = -4$

37. $4x^2 - 17x = 15$

38. $6x^2 - 19x = -15$

39. $12x^2 + x = 1$

40. $4x^2 + 13x = -3$

41. $3x^2 - 11x = 20$

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

Use the quadratic formula to solve the equation. Give exact answers.

43. $4x^2 + 17x = -15$

44. $6x^2 - 13x = 5$

45. $12x^2 + 5x = 2$