

Solve the equation. Round answers to the nearest hundredth when necessary.

1. $x^2 = 45$ [A] -6.31, 6.31 [B] -22.5, 22.5 [C] 6.71 [D] -6.71, 6.71
2. $x^2 = 50$ [A] 7.07 [B] -25, 25 [C] -7.07, 7.07 [D] -6.07, 6.07
3. $x^2 = 147$ [A] -12.12, 12.12 [B] -13.02, 13.02 [C] 12.12 [D] -73.5, 73.5
4. $x^2 = 98$ [A] -9.9, 9.9 [B] 9.9 [C] -10.5, 10.5 [D] -49, 49
5. $x^2 = 18$ [A] -4.64, 4.64 [B] 4.24 [C] -4.24, 4.24 [D] -9, 9
6. $2x^2 = 50$ [A] ± 12.5 [B] ± 5 [C] ± 0.2 [D] ± 7.07
7. $3x^2 = 99$ [A] ± 5.74 [B] ± 0.17 [C] ± 16.5 [D] ± 9.95
8. $2x^2 = 98$ [A] ± 24.5 [B] ± 9.9 [C] ± 0.14 [D] ± 7
9. $2x^2 = 10$ [A] ± 2.24 [B] ± 3.16 [C] ± 0.45 [D] ± 2.5
10. $3x^2 = 18$ [A] ± 3 [B] ± 0.41 [C] ± 4.24 [D] ± 2.45
11. $3x^2 = 27$ [A] ± 0.33 [B] ± 3 [C] ± 4.5 [D] ± 5.2
12. $4x^2 = 96$ [A] ± 12 [B] ± 4.9 [C] ± 9.8 [D] ± 0.2
13. $4x^2 = 100$ [A] ± 5 [B] ± 0.2 [C] ± 10 [D] ± 12.5
14. $4x^2 = 40$ [A] ± 3.16 [B] ± 5 [C] ± 6.32 [D] ± 0.32
15. $4x^2 = 36$ [A] ± 6 [B] ± 3 [C] ± 4.5 [D] ± 0.33
16. $16x^2 = 25$

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17. $9x^2 = 49$

18. $49x^2 = 9$

19. $25x^2 = 64$

20. $64x^2 = 25$

21. $16x^2 = 49$

22. $4x^2 = 9$

23. $49x^2 = 16$

24. $81x^2 = 64$

25. $64x^2 = 49$

26. $x^2 = 144$

27. $x^2 = 289$

28. $x^2 = 625$

29. $x^2 = 841$

30. $x^2 = 121$

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31. $2(x-2)^2 = 4$

- [A] -3.41 and 0.59 [B] 3.41 and -0.59 [C] 4 and 0 [D] 3.41, 0.59

32. $3(x+4)^2 = 16$

- [A] 0 and -8 [B] -1.69 and 6.31 [C] -1.69, -6.31 [D] 1.69 and -6.31

33. $4(x-3)^2 = 9$

- [A] 4.5, 1.5 [B] 4.5 and -1.5 [C] -4.5 and 1.5 [D] 6 and 0

34. $2(x+5)^2 = 25$

- [A] -1.46, -8.54 [B] -1.46 and 8.54 [C] 0 and -10 [D] 1.46 and -8.54

35. $3(x-1)^2 = 36$

- [A] 4.46, -2.46 [B] 7 and -5 [C] -4.46 and -2.46 [D] 4.46 and 2.46

36. $(x+4)^2 = 55$

- [A] 11.42, -3.42 [B] -11.42, 3.42 [C] -11.42, -3.42 [D] 11.42, 3.42

37. $(x-3)^2 = 72$

- [A] -5.49, -11.49 [B] -5.49, 11.49 [C] 5.49, 11.49 [D] 5.49, -11.49

38. $(x-5)^2 = 33$

- [A] -0.74, 10.74 [B] -0.74, -10.74 [C] 0.74, 10.74 [D] 0.74, -10.74

39. $(x+2)^2 = 28$

- [A] -7.29, -3.29 [B] 7.29, -3.29 [C] 7.29, 3.29 [D] -7.29, 3.29

40. $(x-1)^2 = 54$

- [A] 6.35, 8.35 [B] -6.35, -8.35 [C] 6.35, -8.35 [D] -6.35, 8.35

41. $(x-5)^2 = 64$

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42. $b_x + 5g = 4$

43. $b_x - 4g = 36$

44. $b_x + 4g = 16$

45. $b_x - 3g = 25$