

Solving Quadratics by Using Square Roots

Solve each quadratic equation by taking the square root.

1. $x^2 + 4 = 29$

2. $3x^2 - 7 = 47$

3. $x^2 + 11 = 16$

4. $(x+4)^2 = 121$

5. $(2x-3)^2 = 9$

6. $(x-7)^2 = 99$

7. $(x+3)^2 + 6 = 18$

8. $(2x+6)^2 - 8 = 24$

9. $x^2 - 21 = -5$

10. $3(x+4)^2 = 9$

11. $3(x^2 - 4) = 2x^2 - 1$

12. $\frac{2}{5}x^2 - 3 = 7$

Solve by Factoring.

13. $x^2 - 14x + 13 = 0$

14. $2x^2 - 7x = x^2 - 12$

15. $2x^2 - 15 = -7x$
