

Use the square root property to solve problems 1 - 5:

1. $x^2 = 36$

2. $u^2 = 24$

3. $3x^2 - 16 = 0$

4. $(x + 1)^2 = 1$

5. $(s - 7)^2 + 9 = 0$

6. What constant term is needed to "complete the square" for: $x^2 - 12x + \underline{\hspace{2cm}}$?

Use completing the square to solve problems 7 - 10.

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

8. $x^2 + 4x + 1 = 0$

9. $x^2 + 2x = 35$

10. $x^2 - 6x + 10 = 0$

Use the quadratic formula to solve problems 11 - 15.

11. $x^2 - 6x + 8 = 0$

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

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

14. $\frac{x^2}{2} + \frac{5}{2}x = -1$

15. $x^2 - 6x + 10 = 0$