

Paper Practice**Solving Quadratic Equations by Completing the Square**

Find the value of c that makes each trinomial a perfect square.

1. $x^2 - 10x + c$

2. $x^2 + 11x + c$

3. $x^2 - 3x + c$

4. $x^2 + 18x + c$

5. $x^2 + 30x + c$

6. $x^2 - 25x + c$

Solve each equation by completing the square. Round to the nearest tenth, if necessary.

7. $x^2 + 8x - 20 = 0$

8. $x^2 + 10x + 7 = 0$

9. $4x^2 - 18x + 3 = 13$

10. $x^2 + 5x + 8 = 17$

11. $2x^2 - 4x + 7 = 11$

12. $3x^2 + 6x + 9 = -6$