

PROBLEM SET 5-5
(Quadratic Equations)

Solve each equation by factoring, by taking square roots or by graphing:

1. $x^2 + 6x + 5 = 45$

2. $x^2 - 11x + 24 = 0$

3. $3x^2 = 27$

4. $2x^2 - 5x - 3 = 0$

5. $6x^2 + 13x + 6 = 0$

6. $2x^2 + 8x = 5x + 20$

7. $x^2 + 4x = 0$

8. $x^2 = 8x - 7$

9. $x^2 + 2x = 15$

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

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

12. $2x^2 + x - 28 = 0$