

## Practice Solving All Quadratics

Simplify:

1.  $\frac{3 \pm \sqrt{-72}}{4}$

2.  $\frac{5 \pm \sqrt{-150}}{10}$

Solve:

3.  $0 = -2x^2 + 5x + 12$

4.  $x^2 + 3x - 40 = 0$

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

6.  $-37 = x^2 - 4x + 12$

7.  $17x + 3 = 3x^2 + 5x + 12$

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

9.  $0 = 25x^2 - 70x + 93$

10.  $0 = -2x^2 + 5x + 12$

11.  $8x^2 + 2x - 3 = 13x^2 - 14x + 34$

12.  $-2(x + 2)^2 + (x - 1)^2 = 0$

13.  $b^4 - 6b^2 + 5 = 0$

14.  $4 + \frac{8}{x} + \frac{1}{x^2} = 0$

15.  $\frac{3}{x-3} - 5x = 12$