

Finding Roots of Quadratic Functions by Completing the Square A

Name: _____

Period: _____

Directions: Find the roots of each quadratic function by completing the square. **Show all work.**

1. $f(x) = x^2 + 6x - 10$

2. $f(x) = x^2 - 12x + 32$

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

4. $f(x) = x^2 + 7x - 10$

5. $f(x) = x^2 + 11x + 21$

6. $f(x) = x^2 - 8x + 16$

7. $f(x) = x^2 + 5x + 1$

8. $f(x) = x^2 + 16x + 48$

9. $f(x) = x^2 - 7x - 46$

10. $f(x) = x^2 - 12x - 9$