

Name: _____

Date: _____

Factorable? Factor. Perfect-square-ish or 'radical form'? Complete the square or use the formula. Squared term isolated? Take roots.

1. Best method for $x^2 - 9 = 0$?

show your work

2. Best method for $x^2 + 7x + 12 = 0$?

show your work

3. Best method for $(x - 5)^2 = 20$?

show your work

4. Best method for $2x^2 - 4x - 3 = 0$?

show your work

5. Solve $x^2 - 2x - 15 = 0$ (your choice).

show your work

6. Solve $4x^2 = 25$.

show your work

7. Solve $x^2 + 8x + 11 = 0$ (simplest radical form).

show your work

8. Solve $3x^2 + 7x + 2 = 0$.

show your work

9. A parabola $y = x^2 - 4x + 1$ - find its zeros in simplest radical form, then its axis of symmetry. ★ CHALLENGE

show your work

10. Solve $x^2 - 6x + 3 = 0$ two ways (formula AND completing the square) and confirm they match. ★ CHALLENGE

show your work