

Name: _____

Date: _____

Get one side = 0 FIRST, then factor. A GCF or difference of squares may hide inside. Last two are challenge problems!

1. Solve $x^2 + 3x = 0$.

show your work

2. Solve $x^2 - 16 = 0$.

show your work

3. Solve $x^2 - 5x - 6 = 0$.

show your work

4. Solve $x^2 = 5x$.

show your work

5. Solve $2x^2 - 8 = 0$.

show your work

6. Solve $x^2 + 7x + 10 = 0$.

show your work

7. Solve $x^2 - 10x + 25 = 0$. (Perfect square - one answer!)

show your work

8. Solve $3x^2 + 15x = 0$.

show your work

9. Solve $2x^2 + 5x - 3 = 0$. ★ CHALLENGE

show your work

10. A rectangle's area is $x^2 + 3x - 40$ = 0 at its zeros. ★ CHALLENGE
Solve, then explain why only one zero is a valid length.

show your work