Quadratic Equations **Zero Product Property – already factored**

Procedure: **1. Set each factor equal to zero**
2. Solve the resulting equations

Example: **Solve for x.** $(x – 2)(x + 5)(2x – 7) = 0$

1. $x – 2 = 0$ $x + 5 = 0$ $2x – 7 = 0$
$x = 2$ $x = – 5$ $2x = 7$
$x = 7/2$

Solve each equation.

1. $(x – 3)(x – 2) = 0$

2. $(a + 4)(a + 7) = 0$

3. $(y – 11)(y + 5) = 0$

4. $(x – 13)(x + 7) = 0$

5. $(n + 13)(n – 27) = 0$

6. $(x – 13)(x + 7) = 0$

7. $n(n + 12)(n – 8) = 0$

8. $(x + 11)(x -10) = 0$

9. $(2x – 3)(2x + 7) = 0$

10. $x(x – 12)(5x – 13) = 0$

11. $(5n – 16)(n + 11) = 0$

12. $(y – 4)(5y + 8) = 0$

13. $t\,(4t - 5)(t + 8) = 0$

14. $(2b - 7)(2b + 13) = 0$

15. $y(3y - 1)(y + 6) = 0$