

### Day 3: Factoring Zero Product Property

Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

*Solve each quadratic equation by factoring or use the quadratic formula.*

1.  $(x - 7)(x + 9) = 0$

2.  $(2x + 5)(x - 1) = 0$

3.  $2x(3x - 1) = 0$

4.  $x(x - 7) = 0$

5.  $x^2 + 5x - 24 = 0$

6.  $t^2 = -18 - 9t$

7.  $16x^2 - 81 = 0$

8.  $2k^2 = -8k - 8$

9.  $8r^2 + 3r + 2 = 7r^2$

10.  $9x^2 - 2x - 4 = -2x$

11.  $x^2 + 12x + 10 = -10$

12.  $-4n^2 + 6n - 16 = -5n^2$

13.  $3b^2 + 3 = 5b$

14.  $-2v^2 - v + 12 = -3v^2 + 6v$

15.  $3x^2 - 8x = 16$

16.  $42x^2 - 69x + 20 = 7x^2 - 8$

17.  $3k^2 + 72 = 33k$

18.  $7a - 2 = 2a^2$