

Name: \_\_\_\_\_

### Zero Product Property Practice

I can apply the zero product property to find solutions to quadratic functions.

Use the Zero-Product Property to solve each equation. $(x+5)(x-3)=0$	Use the Zero-Product Property to solve each equation. $(x-2)(x+9)=0$
Use the Zero-Product Property to solve each equation. $(b-12)(b+12)=0$	Use the Zero-Product Property to solve each equation. $(2n+3)(n-4)=0$
Use the Zero-Product Property to solve each equation. $(x+7)(4x-5)=0$	Use the Zero-Product Property to solve each equation. $(2x+7)(2x-7)=0$
Use the Zero-Product Property to solve each equation. $(3x-7)(2x+1)=0$	Use the Zero-Product Property to solve each equation. $(8y-3)(4y+1)=0$
Use the Zero-Product Property to solve each equation. $(5x+6)(4x+5)=0$	Use the Zero-Product Property to solve each equation. $(x+7)(x-4)=0$

**Solve each equation by using the zero product property.**

1)  $(n - 5)(n + 3) = 0$

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

3)  $(a + 3)(a + 8) = 0$

4)  $m(m + 7) = 0$

5)  $(3x - 8)(x - 3) = 0$

6)  $(3p + 1)(8p - 3) = 0$

7)  $(a - 7)(a - 3) = 0$

8)  $(4v + 5)(v + 7) = 0$

9)  $3p(5p - 1) = 0$

10)  $(v + 8)^2 = 0$

**Factor the common factor out of each expression.**

11)  $16r^4 - 28r$

12)  $-63p + 56$

13)  $50r + 10$

14)  $-20x^2 - 24x$