

Concep	equation by factoring. t
$\frac{\text{Zero Product P}}{\text{If the product of two factors is z}}$ the factors must be equal to zer $\text{If } a \cdot b = 0, \text{ then either}$	<u>roperty</u> ero, then at least one of o.
Examples	Not Examples
(x+3)(x-2) = 0	(x+3)(x-2) = 7
This is an example because you have a product equal to zero. Using the ZPP, either $x + 3 = 0$ or $x - 2 = 0$.	This is NOT an example because you have a product equal to 7.
x(x+10) = 0	x + 10 = 0
This is an example because you have a product equal to zero. Using the ZPP, either $x = 0$ or $x + 10 = 0$.	This is NOT an example because you do not have a product.

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Objective: Solve a quadratic equation by factoring.

Explain when you can use the Zero Product Property to solve an equation.

The Zero Product Property can be used if a product of factors equals 0.







