

Zero Factor Property

The equation $a \cdot b = 0$ is equivalent to the compound equation $a = 0$ or $b = 0$

Strategy for Solving Equations by Factoring

1. Write the equation with 0 on one side.
2. Factor the other side completely.
3. Use the zero factor property to get simpler equations (by setting each factor equal to 0).
4. Solve the simpler equations.
5. Check the answer in the original equation.
6. State the original set to the original equation.

The Pythagorean Theorem

A triangle with sides a , b , and c is a right triangle if and only if $a^2 + b^2 = c^2$.

(The legs have lengths a and b , and the hypotenuse has length c).

