



solving quadratic equations by factoring







# Zero Factor Theorem

If  $a$  and  $b$  are real numbers and  $ab = 0$ , then  $a = 0$  or  $b = 0$

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- quadratic equations of the standard form

$$ax^2 + bx + c = 0$$

where  $a$ ,  $b$  and  $c$  are real numbers and  $a \neq 0$

- below theorem is very useful in solving quadratic equations

## *Zero Factor Theorem*

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