## Methods of Solving Quadratic Equations: Square Root Method Methods of Solving Quadratic Equations: Square Root Method

- Using inverse operations, solve for $x^{2}$.
- Take the square root of both sides.
- Simplify the radical (birthday cake).
- Place $a \pm$ notation in front of the square root.


## Example 1:

$3(x-2)^{2}-12=0$

## Example 2 <br> $3 x^{2}=54$

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- Place $a \pm$ notation in front of the square root.

Example 1
$3(x-2)^{2}-12=0$
Example 2:
$3 x^{2}=54$

Example 4:
$3 x^{2}-6=21$

Example 3
$(x-2)^{2}-25=0$

## Example 5: <br> $4(x+2)^{2}=6$

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$3 x^{2}-6=21$

Example 5:
$4(x+2)^{2}=6$

