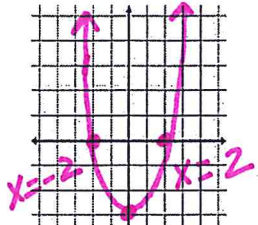
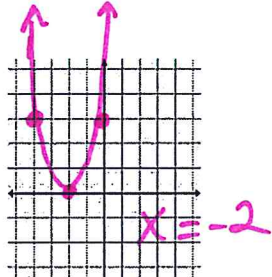


# Solving quadratic equations

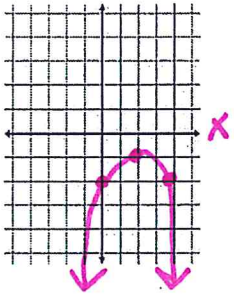
## Graphing



2 Solutions



one solution



No solution

## Square root

$\sqrt{\text{positive}}$  (2 solutions)  $\begin{cases} + \\ - \end{cases}$

$\sqrt{0}$  (one solution)

$\sqrt{\text{negative}}$  (No solution)

How  
Can I find  
Quadratic  
Solutions?

## Factoring

1) Factor

- GCF
- Slide, divide, bottom up
- Both.

2) Solve -  
Set factors equal

To Zero

ⓔ  $y = (x-4)^2$  \* one solution

## Quadratic Formula

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

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$\sqrt{0}$  (one solution)

$\sqrt{-}$  (no solution)