

## Solving Equations

The more numbers you are prepared to allow to exist, the more equations you can solve:

$$x + 3 = 10$$

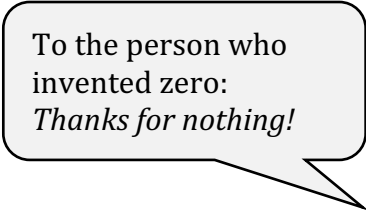
$$x + 3 = 3$$

$$x + 10 = 3$$

$$2x + 3 = 10$$

$$x^2 + 3 = 10$$

$$x^2 + 10 = 3$$



To the person who  
invented zero:  
*Thanks for nothing!*

Solve:  $x^2 - 2x + 5 = 0$

The solutions to  $ax^2 + bx + c = 0$  are:

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

provided that  $a \neq 0$ .

