

ex)

$$x^2 - 12x = 45$$

$$x^2 - 12x - 45 = 0 \quad \checkmark$$

$$(x - 15)(x + 3) = 0$$

$$x - 15 = 0 \quad x + 3 = 0$$

$$x = 15 \quad x = -3$$

$$(15, 0) \quad (-3, 0)$$

$$x^2 = 12 - 4x$$

$$x = 4$$

$$x = 2$$

$$x^2 + 4x - 12 = 0$$

$$(x + 6)(x - 2) = 0$$

ant

c

the number

s.

$$c > 0$$

2 solutions

$$ac = 0$$

1 solution

$$c < 0$$

no real solutions
"imaginary"