

Diferencia de Cuadrados.

① $121x^2 - 25 = 0$

$$\sqrt{121} = 11$$

$$\sqrt{x^2} = x$$

$$\sqrt{25} = 5$$

$$(11x - 5)(11x + 5)$$

$$11x - 5 = 0$$

$$x = \frac{5}{11} = 0.45$$

$$11x + 5 = 0$$

$$x = -\frac{5}{11} = -0.45$$

② $-x^2 + 144 = 0$

$$\sqrt{x^2} = x$$

$$\sqrt{144} = 12$$

$$(x + 12)(x - 12)$$

$$x + 12 = 0$$

$$x = -12$$

$$x - 12 = 0$$

$$x = 12$$

③ $169x^2 - 1 = 0$

$$\sqrt{169} = 13$$

$$\sqrt{x^2} = x$$

$$\sqrt{1} = 1$$

$$(13x - 1)(13x + 1)$$

$$13x - 1 = 0$$

$$x = \frac{1}{13} = 0.07$$

$$13x + 1 = 0$$

$$x = -\frac{1}{13} = -0.07$$

④ $(25x)(25x) - (18)(2)$

$$(25x)(25x) - (18)(2)$$

$$625x^2 - 36$$

$$625x^2 - 36$$

$$(25x - 6)(25x + 6)$$

$$25x - 6 = 0$$

$$x = \frac{6}{25} = 0.24$$

$$25x + 6 = 0$$

$$x = -\frac{6}{25} = -0.24$$

$$(\sqrt{625} = 25 \quad \sqrt{36} = 6 \quad \sqrt{x^2} = x)$$

⑤ $9x^2 - 4 = 0$

$$\sqrt{9} = 3$$

$$\sqrt{x^2} = x$$

$$\sqrt{4} = 2$$

$$(3x - 2)(3x + 2)$$

$$3x - 2 = 0$$

$$x = \frac{2}{3} = 0.66$$

$$3x + 2 = 0$$

$$x = -\frac{2}{3} = -0.66$$