

# 2次方程式

年 組 名前

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■ 次の方程式を解きなさい。

①  $4x^2 + 3x = 0$

②  $x^2 + x - 12 = 0$

③  $x^2 - 13x - 30 = 0$

④  $x^2 - 36 = 0$

⑤  $x^2 + 6x + 8 = 0$

⑥  $x^2 + 11x - 12 = 0$

⑦  $x^2 + 4x - 32 = 0$

⑧  $9x^2 - 1 = 0$

⑨  $x^2 + 8x + 12 = 0$

⑩  $4x^2 - 12x + 9 = 0$

⑪  $4x^2 + 4x + 1 = 0$

⑫  $x^2 - 6x + 9 = 0$

⑬  $25x^2 - 1 = 0$

⑭  $x^2 + 16x + 64 = 0$

⑮  $5x^2 + 2x = 0$

⑯  $x^2 + 8x + 16 = 0$

⑰  $9x^2 + 12x + 4 = 0$

⑱  $x^2 - 6x + 5 = 0$

⑲  $x^2 - 2x + 1 = 0$

⑳  $x^2 - 12x + 20 = 0$

㉑  $16x^2 - 8x + 1 = 0$

㉒  $x^2 - 13x + 42 = 0$

㉓  $x^2 - 9x = 0$

㉔  $6x^2 - x = 0$

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①  $4x^2 + 3x = 0$

$$x(4x + 3) = 0$$

$$x = 0, -\frac{3}{4}$$

②  $x^2 + x - 12 = 0$

$$(x - 3)(x + 4) = 0$$

$$x = 3, -4$$

③  $x^2 - 13x - 30 = 0$

$$(x + 2)(x - 15) = 0$$

$$x = -2, 15$$

④  $x^2 - 36 = 0$

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

$$x = \pm 6$$

⑤  $x^2 + 6x + 8 = 0$

$$(x + 2)(x + 4) = 0$$

$$x = -2, -4$$

⑥  $x^2 + 11x - 12 = 0$

$$(x - 1)(x + 12) = 0$$

$$x = 1, -12$$

⑦  $x^2 + 4x - 32 = 0$

$$(x - 4)(x + 8) = 0$$

$$x = 4, -8$$

⑧  $9x^2 - 1 = 0$

$$(3x + 1)(3x - 1) = 0$$

$$x = \pm \frac{1}{3}$$

⑨  $x^2 + 8x + 12 = 0$

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

$$x = -2, -6$$

⑩  $4x^2 - 12x + 9 = 0$

$$(2x - 3)^2 = 0$$

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

⑪  $4x^2 + 4x + 1 = 0$

$$(2x + 1)^2 = 0$$

$$x = -\frac{1}{2}$$

⑫  $x^2 - 6x + 9 = 0$

$$(x - 3)^2 = 0$$

$$x = 3$$

⑬  $25x^2 - 1 = 0$

$$(5x + 1)(5x - 1) = 0$$

$$x = \pm \frac{1}{5}$$

⑭  $x^2 + 16x + 64 = 0$

$$(x + 8)^2 = 0$$

$$x = -8$$

⑮  $5x^2 + 2x = 0$

$$x(5x + 2) = 0$$

$$x = 0, -\frac{2}{5}$$

⑯  $x^2 + 8x + 16 = 0$

$$(x + 4)^2 = 0$$

$$x = -4$$

⑰  $9x^2 + 12x + 4 = 0$

$$(3x + 2)^2 = 0$$

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

⑱  $x^2 - 6x + 5 = 0$

$$(x - 1)(x - 5) = 0$$

$$x = 1, 5$$

⑲  $x^2 - 2x + 1 = 0$

$$(x - 1)^2 = 0$$

$$x = 1$$

⑳  $x^2 - 12x + 20 = 0$

$$(x - 2)(x - 10) = 0$$

$$x = 2, 10$$

㉑  $16x^2 - 8x + 1 = 0$

$$(4x - 1)^2 = 0$$

$$x = \frac{1}{4}$$

㉒  $x^2 - 13x + 42 = 0$

$$(x - 6)(x - 7) = 0$$

$$x = 6, 7$$

㉓  $x^2 - 9x = 0$

$$x(x - 9) = 0$$

$$x = 0, 9$$

㉔  $6x^2 - x = 0$

$$x(6x - 1) = 0$$

$$x = 0, \frac{1}{6}$$