

# 2次方程式

年 組 名前

/24

■ 次の方程式を解きなさい。

①  $36x^2 - 1 = 0$

②  $x^2 - 1 = 0$

③  $3x^2 - x = 0$

④  $16x^2 - 8x + 1 = 0$

⑤  $25x^2 + 20x + 4 = 0$

⑥  $x^2 - 7x = 0$

⑦  $x^2 - 8x = 0$

⑧  $x^2 + 6x + 9 = 0$

⑨  $5x^2 - x = 0$

⑩  $x^2 - 3x + 2 = 0$

⑪  $x^2 - 7x + 12 = 0$

⑫  $x^2 - 3x - 10 = 0$

⑬  $4x^2 + 3x = 0$

⑭  $x^2 + 16x + 63 = 0$

⑮  $x^2 + 7x - 30 = 0$

⑯  $x^2 + 9x + 18 = 0$

⑰  $x^2 + x - 20 = 0$

⑱  $4x^2 - 9 = 0$

⑲  $x^2 + 6x = 0$

⑳  $x^2 + 12x + 32 = 0$

㉑  $x^2 + 4x + 4 = 0$

㉒  $x^2 - 8x + 16 = 0$

㉓  $x^2 - 6x - 7 = 0$

㉔  $x^2 + 15x + 56 = 0$

■ 次の方程式を解きなさい。

①  $36x^2 - 1 = 0$

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

$$x = \pm \frac{1}{6}$$

②  $x^2 - 1 = 0$

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

$$x = \pm 1$$

③  $3x^2 - x = 0$

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

$$x = 0, \frac{1}{3}$$

④  $16x^2 - 8x + 1 = 0$

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

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

⑤  $25x^2 + 20x + 4 = 0$

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

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

⑥  $x^2 - 7x = 0$

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

$$x = 0, 7$$

⑦  $x^2 - 8x = 0$

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

$$x = 0, 8$$

⑧  $x^2 + 6x + 9 = 0$

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

$$x = -3$$

⑨  $5x^2 - x = 0$

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

$$x = 0, \frac{1}{5}$$

⑩  $x^2 - 3x + 2 = 0$

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

$$x = 1, 2$$

⑪  $x^2 - 7x + 12 = 0$

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

$$x = 3, 4$$

⑫  $x^2 - 3x - 10 = 0$

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

$$x = -2, 5$$

⑬  $4x^2 + 3x = 0$

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

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

⑭  $x^2 + 16x + 63 = 0$

$$(x+7)(x+9) = 0$$

$$x = -7, -9$$

⑮  $x^2 + 7x - 30 = 0$

$$(x-3)(x+10) = 0$$

$$x = 3, -10$$

⑯  $x^2 + 9x + 18 = 0$

$$(x+3)(x+6) = 0$$

$$x = -3, -6$$

⑰  $x^2 + x - 20 = 0$

$$(x-4)(x+5) = 0$$

$$x = 4, -5$$

⑱  $4x^2 - 9 = 0$

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

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

⑲  $x^2 + 6x = 0$

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

$$x = 0, -6$$

⑳  $x^2 + 12x + 32 = 0$

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

$$x = -4, -8$$

㉑  $x^2 + 4x + 4 = 0$

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

$$x = -2$$

㉒  $x^2 - 8x + 16 = 0$

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

$$x = 4$$

㉓  $x^2 - 6x - 7 = 0$

$$(x+1)(x-7) = 0$$

$$x = -1, 7$$

㉔  $x^2 + 15x + 56 = 0$

$$(x+7)(x+8) = 0$$

$$x = -7, -8$$