

# 2次方程式

年 組 名前

/24

■ 次の方程式を解きなさい。

①  $x^2 - 36 = 0$

②  $x^2 - 2x = 0$

③  $x^2 + 9x = 0$

④  $3x^2 - 2x = 0$

⑤  $x^2 + 7x = 0$

⑥  $x^2 - 3x - 18 = 0$

⑦  $x^2 + 4x - 12 = 0$

⑧  $x^2 + 10x + 25 = 0$

⑨  $x^2 - 2x + 1 = 0$

⑩  $x^2 - 6x + 9 = 0$

⑪  $x^2 + 13x + 40 = 0$

⑫  $9x^2 + 6x + 1 = 0$

⑬  $25x^2 - 10x + 1 = 0$

⑭  $x^2 - x - 12 = 0$

⑮  $6x^2 + x = 0$

⑯  $x^2 + 8x + 16 = 0$

⑰  $x^2 + 6x + 5 = 0$

⑱  $x^2 - 14x + 45 = 0$

⑲  $16x^2 - 1 = 0$

⑳  $16x^2 - 24x + 9 = 0$

㉑  $4x^2 - 1 = 0$

㉒  $x^2 - 6x - 16 = 0$

㉓  $4x^2 + 12x + 9 = 0$

㉔  $x^2 + 5x - 6 = 0$

■ 次の方程式を解きなさい。

$$\textcircled{1} x^2 - 36 = 0$$

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

$$x = \pm 6$$

$$\textcircled{2} x^2 - 2x = 0$$

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

$$x = 0, 2$$

$$\textcircled{3} x^2 + 9x = 0$$

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

$$x = 0, -9$$

$$\textcircled{4} 3x^2 - 2x = 0$$

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

$$x = 0, \frac{2}{3}$$

$$\textcircled{5} x^2 + 7x = 0$$

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

$$x = 0, -7$$

$$\textcircled{6} x^2 - 3x - 18 = 0$$

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

$$x = -3, 6$$

$$\textcircled{7} x^2 + 4x - 12 = 0$$

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

$$x = 2, -6$$

$$\textcircled{8} x^2 + 10x + 25 = 0$$

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

$$x = -5$$

$$\textcircled{9} x^2 - 2x + 1 = 0$$

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

$$x = 1$$

$$\textcircled{10} x^2 - 6x + 9 = 0$$

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

$$x = 3$$

$$\textcircled{11} x^2 + 13x + 40 = 0$$

$$(x+5)(x+8) = 0$$

$$x = -5, -8$$

$$\textcircled{12} 9x^2 + 6x + 1 = 0$$

$$(3x+1)^2 = 0$$

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

$$\textcircled{13} 25x^2 - 10x + 1 = 0$$

$$(5x-1)^2 = 0$$

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

$$\textcircled{14} x^2 - x - 12 = 0$$

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

$$x = -3, 4$$

$$\textcircled{15} 6x^2 + x = 0$$

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

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

$$\textcircled{16} x^2 + 8x + 16 = 0$$

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

$$x = -4$$

$$\textcircled{17} x^2 + 6x + 5 = 0$$

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

$$x = -1, -5$$

$$\textcircled{18} x^2 - 14x + 45 = 0$$

$$(x-5)(x-9) = 0$$

$$x = 5, 9$$

$$\textcircled{19} 16x^2 - 1 = 0$$

$$(4x+1)(4x-1) = 0$$

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

$$\textcircled{20} 16x^2 - 24x + 9 = 0$$

$$(4x-3)^2 = 0$$

$$x = \frac{3}{4}$$

$$\textcircled{21} 4x^2 - 1 = 0$$

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

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

$$\textcircled{22} x^2 - 6x - 16 = 0$$

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

$$x = -2, 8$$

$$\textcircled{23} 4x^2 + 12x + 9 = 0$$

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

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

$$\textcircled{24} x^2 + 5x - 6 = 0$$

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

$$x = 1, -6$$