

2次方程式

年 組 名前

/24

■ 次の方程式を解きなさい。

① $x^2 + 16x + 28 = 0$

② $x^2 - 12x + 36 = 0$

③ $x^2 + 6x - 16 = 0$

④ $x^2 - 2x - 48 = 0$

⑤ $x^2 - 4 = 0$

⑥ $x^2 - 6x + 8 = 0$

⑦ $x^2 + 9x = 0$

⑧ $x^2 - 4x - 5 = 0$

⑨ $x^2 - 2x - 24 = 0$

⑩ $x^2 + 5x - 24 = 0$

⑪ $5x^2 + x = 0$

⑫ $x^2 - 11x + 10 = 0$

⑬ $9x^2 - 12x + 4 = 0$

⑭ $x^2 + 8x + 15 = 0$

⑮ $x^2 + 3x + 2 = 0$

⑯ $x^2 - 3x - 18 = 0$

⑰ $x^2 - 9 = 0$

⑱ $x^2 - 11x + 30 = 0$

⑲ $x^2 - 4x = 0$

⑳ $x^2 - 2x + 1 = 0$

㉑ $9x^2 - 1 = 0$

㉒ $25x^2 - 20x + 4 = 0$

㉓ $x^2 - 5x = 0$

㉔ $4x^2 - 9 = 0$

■ 次の方程式を解きなさい。

$$\begin{aligned} \textcircled{1} \quad x^2 + 16x + 28 &= 0 \\ (x+2)(x+14) &= 0 \\ x &= -2, -14 \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad x^2 - 12x + 36 &= 0 \\ (x-6)^2 &= 0 \\ x &= 6 \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad x^2 + 6x - 16 &= 0 \\ (x-2)(x+8) &= 0 \\ x &= 2, -8 \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad x^2 - 2x - 48 &= 0 \\ (x+6)(x-8) &= 0 \\ x &= -6, 8 \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad x^2 - 4 &= 0 \\ (x+2)(x-2) &= 0 \\ x &= \pm 2 \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad x^2 - 6x + 8 &= 0 \\ (x-2)(x-4) &= 0 \\ x &= 2, 4 \end{aligned}$$

$$\begin{aligned} \textcircled{7} \quad x^2 + 9x &= 0 \\ x(x+9) &= 0 \\ x &= 0, -9 \end{aligned}$$

$$\begin{aligned} \textcircled{8} \quad x^2 - 4x - 5 &= 0 \\ (x+1)(x-5) &= 0 \\ x &= -1, 5 \end{aligned}$$

$$\begin{aligned} \textcircled{9} \quad x^2 - 2x - 24 &= 0 \\ (x+4)(x-6) &= 0 \\ x &= -4, 6 \end{aligned}$$

$$\begin{aligned} \textcircled{10} \quad x^2 + 5x - 24 &= 0 \\ (x-3)(x+8) &= 0 \\ x &= 3, -8 \end{aligned}$$

$$\begin{aligned} \textcircled{11} \quad 5x^2 + x &= 0 \\ x(5x+1) &= 0 \\ x &= 0, -\frac{1}{5} \end{aligned}$$

$$\begin{aligned} \textcircled{12} \quad x^2 - 11x + 10 &= 0 \\ (x-1)(x-10) &= 0 \\ x &= 1, 10 \end{aligned}$$

$$\begin{aligned} \textcircled{13} \quad 9x^2 - 12x + 4 &= 0 \\ (3x-2)^2 &= 0 \\ x &= \frac{2}{3} \end{aligned}$$

$$\begin{aligned} \textcircled{14} \quad x^2 + 8x + 15 &= 0 \\ (x+3)(x+5) &= 0 \\ x &= -3, -5 \end{aligned}$$

$$\begin{aligned} \textcircled{15} \quad x^2 + 3x + 2 &= 0 \\ (x+1)(x+2) &= 0 \\ x &= -1, -2 \end{aligned}$$

$$\begin{aligned} \textcircled{16} \quad x^2 - 3x - 18 &= 0 \\ (x+3)(x-6) &= 0 \\ x &= -3, 6 \end{aligned}$$

$$\begin{aligned} \textcircled{17} \quad x^2 - 9 &= 0 \\ (x+3)(x-3) &= 0 \\ x &= \pm 3 \end{aligned}$$

$$\begin{aligned} \textcircled{18} \quad x^2 - 11x + 30 &= 0 \\ (x-5)(x-6) &= 0 \\ x &= 5, 6 \end{aligned}$$

$$\begin{aligned} \textcircled{19} \quad x^2 - 4x &= 0 \\ x(x-4) &= 0 \\ x &= 0, 4 \end{aligned}$$

$$\begin{aligned} \textcircled{20} \quad x^2 - 2x + 1 &= 0 \\ (x-1)^2 &= 0 \\ x &= 1 \end{aligned}$$

$$\begin{aligned} \textcircled{21} \quad 9x^2 - 1 &= 0 \\ (3x+1)(3x-1) &= 0 \\ x &= \pm \frac{1}{3} \end{aligned}$$

$$\begin{aligned} \textcircled{22} \quad 25x^2 - 20x + 4 &= 0 \\ (5x-2)^2 &= 0 \\ x &= \frac{2}{5} \end{aligned}$$

$$\begin{aligned} \textcircled{23} \quad x^2 - 5x &= 0 \\ x(x-5) &= 0 \\ x &= 0, 5 \end{aligned}$$

$$\begin{aligned} \textcircled{24} \quad 4x^2 - 9 &= 0 \\ (2x+3)(2x-3) &= 0 \\ x &= \pm \frac{3}{2} \end{aligned}$$