

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 $x^2 - 8x + 15 = 0$

② $x^2 - 3x - 4 = 0$

③ $x^2 + 2x + 1 = 0$

④ $x^2 + 4x = 0$

⑤ $x^2 + 2x - 8 = 0$

⑥ $16x^2 - 24x + 9 = 0$

⑦ $25x^2 + 10x + 1 = 0$

⑧ $x^2 + 13x + 42 = 0$

⑨ $36x^2 - 1 = 0$

⑩ $x^2 + 12x + 36 = 0$

⑪ $x^2 + 8x - 20 = 0$

⑫ $x^2 + 7x + 6 = 0$

⑬ $x^2 - 2x - 35 = 0$

⑭ $4x^2 + x = 0$

⑮ $25x^2 - 4 = 0$

⑯ $x^2 + 3x = 0$

⑰ $x^2 + 5x - 24 = 0$

⑱ $x^2 - 5x + 6 = 0$

⑲ $x^2 + 12x - 28 = 0$

⑳ $4x^2 + 12x + 9 = 0$

㉑ $x^2 - 4x + 4 = 0$

㉒ $x^2 - 4x - 45 = 0$

㉓ $x^2 - 11x + 18 = 0$

㉔ $x^2 - 5x = 0$

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① $x^2 - 8x + 15 = 0$

$$(x-3)(x-5) = 0$$

$$x = 3, 5$$

② $x^2 - 3x - 4 = 0$

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

$$x = -1, 4$$

③ $x^2 + 2x + 1 = 0$

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

$$x = -1$$

④ $x^2 + 4x = 0$

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

$$x = 0, -4$$

⑤ $x^2 + 2x - 8 = 0$

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

$$x = 2, -4$$

⑥ $16x^2 - 24x + 9 = 0$

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

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

⑦ $25x^2 + 10x + 1 = 0$

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

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

⑧ $x^2 + 13x + 42 = 0$

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

$$x = -6, -7$$

⑨ $36x^2 - 1 = 0$

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

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

⑩ $x^2 + 12x + 36 = 0$

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

$$x = -6$$

⑪ $x^2 + 8x - 20 = 0$

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

$$x = 2, -10$$

⑫ $x^2 + 7x + 6 = 0$

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

$$x = -1, -6$$

⑬ $x^2 - 2x - 35 = 0$

$$(x+5)(x-7) = 0$$

$$x = -5, 7$$

⑭ $4x^2 + x = 0$

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

$$x = 0, -\frac{1}{4}$$

⑮ $25x^2 - 4 = 0$

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

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

⑯ $x^2 + 3x = 0$

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

$$x = 0, -3$$

⑰ $x^2 + 5x - 24 = 0$

$$(x-3)(x+8) = 0$$

$$x = 3, -8$$

⑱ $x^2 - 5x + 6 = 0$

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

$$x = 2, 3$$

⑲ $x^2 + 12x - 28 = 0$

$$(x-2)(x+14) = 0$$

$$x = 2, -14$$

⑳ $4x^2 + 12x + 9 = 0$

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

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

㉑ $x^2 - 4x + 4 = 0$

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

$$x = 2$$

㉒ $x^2 - 4x - 45 = 0$

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

$$x = -5, 9$$

㉓ $x^2 - 11x + 18 = 0$

$$(x-2)(x-9) = 0$$

$$x = 2, 9$$

㉔ $x^2 - 5x = 0$

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

$$x = 0, 5$$