

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 $x^2 + 11x - 12 = 0$

⑧ $x^2 + 11x + 10 = 0$

⑮ $x^2 - x = 0$

② $x^2 - x - 20 = 0$

⑨ $x^2 - 7x + 12 = 0$

⑯ $7x^2 + 6x - 1 = 0$

③ $2x^2 - 9x + 7 = 0$

⑩ $3x^2 + 2x = 0$

⑰ $x^2 - 8x - 20 = 0$

④ $25x^2 - 4 = 0$

⑪ $x^2 + 6x + 9 = 0$

⑱ $x^2 + 2x - 35 = 0$

⑤ $x^2 + 8x + 7 = 0$

⑫ $x^2 - 4x - 1 = 0$

⑲ $2x^2 + 3x - 2 = 0$

⑥ $3x^2 + 2x - 8 = 0$

⑬ $x^2 - 4 = 0$

⑳ $25x^2 - 1 = 0$

⑦ $2x^2 + 3x - 1 = 0$

⑭ $4x^2 + 3x - 1 = 0$

㉑ $3x^2 + x = 0$

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① $x^2 + 11x - 12 = 0$

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

$$x = 1, -12$$

② $x^2 - x - 20 = 0$

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

$$x = -4, 5$$

③ $2x^2 - 9x + 7 = 0$

$$x = \frac{9 \pm 5}{4}$$

$$= \frac{7}{2}, 1$$

④ $25x^2 - 4 = 0$

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

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

⑤ $x^2 + 8x + 7 = 0$

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

$$x = -1, -7$$

⑥ $3x^2 + 2x - 8 = 0$

$$x = \frac{-1 \pm 5}{3}$$

$$= \frac{4}{3}, -2$$

⑦ $2x^2 + 3x - 1 = 0$

$$x = \frac{-3 \pm \sqrt{17}}{4}$$

⑧ $x^2 + 11x + 10 = 0$

$$(x+1)(x+10) = 0$$

$$x = -1, -10$$

⑨ $x^2 - 7x + 12 = 0$

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

$$x = 3, 4$$

⑩ $3x^2 + 2x = 0$

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

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

⑪ $x^2 + 6x + 9 = 0$

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

$$x = -3$$

⑫ $x^2 - 4x - 1 = 0$

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

⑬ $x^2 - 4 = 0$

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

$$x = \pm 2$$

⑭ $4x^2 + 3x - 1 = 0$

$$x = \frac{-3 \pm 5}{8}$$

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

⑮ $x^2 - x = 0$

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

$$x = 0, 1$$

⑯ $7x^2 + 6x - 1 = 0$

$$x = \frac{-3 \pm 4}{7}$$

$$= \frac{1}{7}, -1$$

⑰ $x^2 - 8x - 20 = 0$

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

$$x = -2, 10$$

⑱ $x^2 + 2x - 35 = 0$

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

$$x = 5, -7$$

⑲ $2x^2 + 3x - 2 = 0$

$$x = \frac{-3 \pm 5}{4}$$

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

⑳ $25x^2 - 1 = 0$

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

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

㉑ $3x^2 + x = 0$

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

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