

2次方程式

年 組 名前

/21

■ 次の方程式を解きなさい。

① $x^2 - 3x - 5 = 0$

⑧ $x^2 - 49 = 0$

⑮ $x^2 - 9x + 8 = 0$

② $x^2 - 5x - 24 = 0$

⑨ $5x^2 - x = 0$

⑯ $x^2 - 13x + 36 = 0$

③ $x^2 + 2x - 24 = 0$

⑩ $7x^2 - 4x - 3 = 0$

⑰ $x^2 + 3x - 40 = 0$

④ $x^2 + 3x + 2 = 0$

⑪ $x^2 - 5x = 0$

⑱ $x^2 + 8x + 5 = 0$

⑤ $x^2 + 7x + 12 = 0$

⑫ $x^2 + 6x = 0$

⑲ $3x^2 + x = 0$

⑥ $4x^2 - x - 2 = 0$

⑬ $6x^2 - 5x - 1 = 0$

⑳ $x^2 - 8x + 16 = 0$

⑦ $8x^2 - 9x + 1 = 0$

⑭ $2x^2 + x = 0$

㉑ $2x^2 + 7x + 1 = 0$

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① $x^2 - 3x - 5 = 0$

$$x = \frac{3 \pm \sqrt{29}}{2}$$

② $x^2 - 5x - 24 = 0$

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

③ $x^2 + 2x - 24 = 0$

$$(x-4)(x+6) = 0$$
$$x = 4, -6$$

④ $x^2 + 3x + 2 = 0$

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

⑤ $x^2 + 7x + 12 = 0$

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

⑥ $4x^2 - x - 2 = 0$

$$x = \frac{1 \pm \sqrt{33}}{8}$$

⑦ $8x^2 - 9x + 1 = 0$

$$x = \frac{9 \pm 7}{16}$$
$$= 1, \frac{1}{8}$$

⑧ $x^2 - 49 = 0$

$$(x+7)(x-7) = 0$$
$$x = \pm 7$$

⑨ $5x^2 - x = 0$

$$x(5x-1) = 0$$
$$x = 0, \frac{1}{5}$$

⑩ $7x^2 - 4x - 3 = 0$

$$x = \frac{2 \pm 5}{7}$$
$$= 1, -\frac{3}{7}$$

⑪ $x^2 - 5x = 0$

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

⑫ $x^2 + 6x = 0$

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

⑬ $6x^2 - 5x - 1 = 0$

$$x = \frac{5 \pm 7}{12}$$
$$= 1, -\frac{1}{6}$$

⑭ $2x^2 + x = 0$

$$x(2x+1) = 0$$
$$x = 0, -\frac{1}{2}$$

⑮ $x^2 - 9x + 8 = 0$

$$(x-1)(x-8) = 0$$
$$x = 1, 8$$

⑯ $x^2 - 13x + 36 = 0$

$$(x-4)(x-9) = 0$$
$$x = 4, 9$$

⑰ $x^2 + 3x - 40 = 0$

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

⑱ $x^2 + 8x + 5 = 0$

$$x = -4 \pm \sqrt{11}$$

⑲ $3x^2 + x = 0$

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

⑳ $x^2 - 8x + 16 = 0$

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

㉑ $2x^2 + 7x + 1 = 0$

$$x = \frac{-7 \pm \sqrt{41}}{4}$$