

2次方程式

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■ 次の方程式を解きなさい。

① $2x^2 + 7x + 6 = 0$

⑧ $2x^2 - x - 6 = 0$

⑮ $3x^2 - 2x - 3 = 0$

② $5x^2 - x - 4 = 0$

⑨ $6x^2 - 5x + 1 = 0$

⑯ $9x^2 - 3x - 2 = 0$

③ $7x^2 - 4x - 3 = 0$

⑩ $4x^2 + 9x + 2 = 0$

⑰ $2x^2 - 5x + 1 = 0$

④ $x^2 - 3x - 2 = 0$

⑪ $2x^2 + 9x + 4 = 0$

⑱ $x^2 + 8x + 4 = 0$

⑤ $4x^2 + 9x + 3 = 0$

⑫ $2x^2 + 7x + 1 = 0$

⑲ $2x^2 + x - 2 = 0$

⑥ $9x^2 + 3x - 2 = 0$

⑬ $x^2 - 4x + 2 = 0$

⑳ $7x^2 - 5x - 1 = 0$

⑦ $5x^2 + 8x + 2 = 0$

⑭ $4x^2 - 7x + 3 = 0$

㉑ $4x^2 - 9x + 4 = 0$

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■ 次の方程式を解きなさい。

① $2x^2 + 7x + 6 = 0$

$$x = \frac{-7 \pm 1}{4}$$
$$= \frac{3}{2}, -2$$

② $5x^2 - x - 4 = 0$

$$x = \frac{1 \pm 9}{10}$$
$$= 1, -\frac{4}{5}$$

③ $7x^2 - 4x - 3 = 0$

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

④ $x^2 - 3x - 2 = 0$

$$x = \frac{3 \pm \sqrt{17}}{2}$$

⑤ $4x^2 + 9x + 3 = 0$

$$x = \frac{-9 \pm \sqrt{33}}{8}$$

⑥ $9x^2 + 3x - 2 = 0$

$$x = \frac{-1 \pm 3}{6}$$
$$= \frac{1}{3}, -\frac{2}{3}$$

⑦ $5x^2 + 8x + 2 = 0$

$$x = \frac{-4 \pm \sqrt{6}}{5}$$

⑧ $2x^2 - x - 6 = 0$

$$x = \frac{1 \pm 7}{4}$$
$$= 2, -\frac{3}{2}$$

⑨ $6x^2 - 5x + 1 = 0$

$$x = \frac{5 \pm 1}{12}$$
$$= \frac{1}{2}, \frac{1}{3}$$

⑩ $4x^2 + 9x + 2 = 0$

$$x = \frac{-9 \pm 7}{8}$$
$$= \frac{1}{4}, -2$$

⑪ $2x^2 + 9x + 4 = 0$

$$x = \frac{-9 \pm 7}{4}$$
$$= \frac{1}{2}, -4$$

⑫ $2x^2 + 7x + 1 = 0$

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

⑬ $x^2 - 4x + 2 = 0$

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

⑭ $4x^2 - 7x + 3 = 0$

$$x = \frac{7 \pm 1}{8}$$
$$= 1, \frac{3}{4}$$

⑮ $3x^2 - 2x - 3 = 0$

$$x = \frac{1 \pm \sqrt{10}}{3}$$

⑯ $9x^2 - 3x - 2 = 0$

$$x = \frac{1 \pm 3}{6}$$
$$= \frac{2}{3}, -\frac{1}{3}$$

⑰ $2x^2 - 5x + 1 = 0$

$$x = \frac{5 \pm \sqrt{17}}{4}$$

⑱ $x^2 + 8x + 4 = 0$

$$x = -4 \pm 2\sqrt{3}$$

⑲ $2x^2 + x - 2 = 0$

$$x = \frac{-1 \pm \sqrt{17}}{4}$$

⑳ $7x^2 - 5x - 1 = 0$

$$x = \frac{5 \pm \sqrt{53}}{14}$$

㉑ $4x^2 - 9x + 4 = 0$

$$x = \frac{9 \pm \sqrt{17}}{8}$$