

2次方程式

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■ 次の方程式を解きなさい。

① $x^2 - 3x - 2 = 0$

⑧ $2x^2 - 8x + 3 = 0$

⑮ $4x^2 - 9x + 2 = 0$

② $7x^2 - 8x + 2 = 0$

⑨ $2x^2 - 9x + 4 = 0$

⑯ $7x^2 + 6x + 1 = 0$

③ $4x^2 - 4x - 3 = 0$

⑩ $3x^2 + 8x - 3 = 0$

⑰ $7x^2 + 6x - 1 = 0$

④ $x^2 - 7x - 1 = 0$

⑪ $3x^2 + 4x - 2 = 0$

⑱ $2x^2 + x - 5 = 0$

⑤ $x^2 - 4x + 1 = 0$

⑫ $3x^2 + 7x + 2 = 0$

⑲ $7x^2 - 5x - 2 = 0$

⑥ $3x^2 - 5x - 1 = 0$

⑬ $3x^2 + 4x + 1 = 0$

⑳ $3x^2 + x - 4 = 0$

⑦ $2x^2 - 3x - 1 = 0$

⑭ $5x^2 - 9x + 4 = 0$

㉑ $x^2 + 7x + 3 = 0$

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■ 次の方程式を解きなさい。

① $x^2 - 3x - 2 = 0$

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

② $7x^2 - 8x + 2 = 0$

$$x = \frac{4 \pm \sqrt{2}}{7}$$

③ $4x^2 - 4x - 3 = 0$

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

④ $x^2 - 7x - 1 = 0$

$$x = \frac{7 \pm \sqrt{53}}{2}$$

⑤ $x^2 - 4x + 1 = 0$

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

⑥ $3x^2 - 5x - 1 = 0$

$$x = \frac{5 \pm \sqrt{37}}{6}$$

⑦ $2x^2 - 3x - 1 = 0$

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

⑧ $2x^2 - 8x + 3 = 0$

$$x = \frac{4 \pm \sqrt{10}}{2}$$

⑨ $2x^2 - 9x + 4 = 0$

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

⑩ $3x^2 + 8x - 3 = 0$

$$x = \frac{-4 \pm 5}{3}$$
$$= \frac{1}{3}, -3$$

⑪ $3x^2 + 4x - 2 = 0$

$$x = \frac{-2 \pm \sqrt{10}}{3}$$

⑫ $3x^2 + 7x + 2 = 0$

$$x = \frac{-7 \pm 5}{6}$$
$$= \frac{1}{3}, -2$$

⑬ $3x^2 + 4x + 1 = 0$

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

⑭ $5x^2 - 9x + 4 = 0$

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

⑮ $4x^2 - 9x + 2 = 0$

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

⑯ $7x^2 + 6x + 1 = 0$

$$x = \frac{-3 \pm \sqrt{2}}{7}$$

⑰ $7x^2 + 6x - 1 = 0$

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

⑱ $2x^2 + x - 5 = 0$

$$x = \frac{-1 \pm \sqrt{41}}{4}$$

⑲ $7x^2 - 5x - 2 = 0$

$$x = \frac{5 \pm 9}{14}$$
$$= 1, -\frac{2}{7}$$

⑳ $3x^2 + x - 4 = 0$

$$x = \frac{-1 \pm 7}{6}$$
$$= 1, -\frac{4}{3}$$

㉑ $x^2 + 7x + 3 = 0$

$$x = \frac{-7 \pm \sqrt{37}}{2}$$