

2次方程式

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■ 次の方程式を解きなさい。

① $4x^2 - 5x - 1 = 0$

⑧ $7x^2 - 5x - 1 = 0$

⑮ $2x^2 + 7x + 3 = 0$

② $7x^2 - 9x + 1 = 0$

⑨ $x^2 + 9x + 7 = 0$

⑯ $5x^2 + 2x - 3 = 0$

③ $4x^2 + 5x + 1 = 0$

⑩ $x^2 + 7x + 5 = 0$

⑰ $7x^2 - 5x - 2 = 0$

④ $4x^2 - x - 2 = 0$

⑪ $7x^2 + 8x + 1 = 0$

⑱ $5x^2 - 6x - 1 = 0$

⑤ $2x^2 - 7x + 4 = 0$

⑫ $3x^2 + 8x + 5 = 0$

⑲ $3x^2 + 4x + 1 = 0$

⑥ $7x^2 - 6x + 1 = 0$

⑬ $x^2 + 8x + 8 = 0$

⑳ $4x^2 + 4x - 3 = 0$

⑦ $6x^2 - 5x - 1 = 0$

⑭ $9x^2 + 8x - 1 = 0$

㉑ $7x^2 - 6x - 1 = 0$

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■ 次の方程式を解きなさい。

① $4x^2 - 5x - 1 = 0$

$$x = \frac{5 \pm \sqrt{41}}{8}$$

② $7x^2 - 9x + 1 = 0$

$$x = \frac{9 \pm \sqrt{53}}{14}$$

③ $4x^2 + 5x + 1 = 0$

$$x = \frac{-5 \pm 3}{8}$$
$$= \frac{1}{4}, -1$$

④ $4x^2 - x - 2 = 0$

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

⑤ $2x^2 - 7x + 4 = 0$

$$x = \frac{7 \pm \sqrt{17}}{4}$$

⑥ $7x^2 - 6x + 1 = 0$

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

⑦ $6x^2 - 5x - 1 = 0$

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

⑧ $7x^2 - 5x - 1 = 0$

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

⑨ $x^2 + 9x + 7 = 0$

$$x = \frac{-9 \pm \sqrt{53}}{2}$$

⑩ $x^2 + 7x + 5 = 0$

$$x = \frac{-7 \pm \sqrt{29}}{2}$$

⑪ $7x^2 + 8x + 1 = 0$

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

⑫ $3x^2 + 8x + 5 = 0$

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

⑬ $x^2 + 8x + 8 = 0$

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

⑭ $9x^2 + 8x - 1 = 0$

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

⑮ $2x^2 + 7x + 3 = 0$

$$x = \frac{-7 \pm 5}{4}$$
$$= \frac{1}{2}, -3$$

⑯ $5x^2 + 2x - 3 = 0$

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

⑰ $7x^2 - 5x - 2 = 0$

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

⑱ $5x^2 - 6x - 1 = 0$

$$x = \frac{3 \pm \sqrt{14}}{5}$$

⑲ $3x^2 + 4x + 1 = 0$

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

⑳ $4x^2 + 4x - 3 = 0$

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

㉑ $7x^2 - 6x - 1 = 0$

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