

2次方程式

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■ 次の方程式を解きなさい。

① $2x^2 + 5x + 2 = 0$

⑧ $6x^2 - 5x - 1 = 0$

⑮ $8x^2 + 7x - 1 = 0$

② $3x^2 - 9x + 5 = 0$

⑨ $7x^2 - 7x + 1 = 0$

⑯ $6x^2 + 7x + 1 = 0$

③ $x^2 - 4x + 1 = 0$

⑩ $7x^2 + 4x - 3 = 0$

⑰ $6x^2 + 6x + 1 = 0$

④ $6x^2 - 5x + 1 = 0$

⑪ $4x^2 + 5x + 1 = 0$

⑱ $7x^2 - 8x + 2 = 0$

⑤ $3x^2 + 9x + 4 = 0$

⑫ $5x^2 + 9x + 2 = 0$

⑲ $2x^2 - x - 6 = 0$

⑥ $3x^2 - 8x + 3 = 0$

⑬ $2x^2 + 7x - 4 = 0$

⑳ $x^2 + x - 3 = 0$

⑦ $3x^2 - 2x - 3 = 0$

⑭ $5x^2 + 4x - 1 = 0$

㉑ $6x^2 - 8x + 1 = 0$

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■ 次の方程式を解きなさい。

① $2x^2 + 5x + 2 = 0$

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

② $3x^2 - 9x + 5 = 0$

$$x = \frac{9 \pm \sqrt{21}}{6}$$

③ $x^2 - 4x + 1 = 0$

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

④ $6x^2 - 5x + 1 = 0$

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

⑤ $3x^2 + 9x + 4 = 0$

$$x = \frac{-9 \pm \sqrt{33}}{6}$$

⑥ $3x^2 - 8x + 3 = 0$

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

⑦ $3x^2 - 2x - 3 = 0$

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

⑧ $6x^2 - 5x - 1 = 0$

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

⑨ $7x^2 - 7x + 1 = 0$

$$x = \frac{7 \pm \sqrt{21}}{14}$$

⑩ $7x^2 + 4x - 3 = 0$

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

⑪ $4x^2 + 5x + 1 = 0$

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

⑫ $5x^2 + 9x + 2 = 0$

$$x = \frac{-9 \pm \sqrt{41}}{10}$$

⑬ $2x^2 + 7x - 4 = 0$

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

⑭ $5x^2 + 4x - 1 = 0$

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

⑮ $8x^2 + 7x - 1 = 0$

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

⑯ $6x^2 + 7x + 1 = 0$

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

⑰ $6x^2 + 6x + 1 = 0$

$$x = \frac{-3 \pm \sqrt{3}}{6}$$

⑱ $7x^2 - 8x + 2 = 0$

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

⑲ $2x^2 - x - 6 = 0$

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

⑳ $x^2 + x - 3 = 0$

$$x = \frac{-1 \pm \sqrt{13}}{2}$$

㉑ $6x^2 - 8x + 1 = 0$

$$x = \frac{4 \pm \sqrt{10}}{6}$$