

2次方程式

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■ 次の方程式を解きなさい。

① $2x^2 + 4x - 1 = 0$

⑧ $3x^2 + 7x + 4 = 0$

⑮ $5x^2 - 4x - 1 = 0$

② $x^2 - 6x + 4 = 0$

⑨ $5x^2 + 5x - 1 = 0$

⑯ $7x^2 + 4x - 3 = 0$

③ $2x^2 + 8x - 1 = 0$

⑩ $5x^2 - 2x - 2 = 0$

⑰ $2x^2 + 5x - 7 = 0$

④ $2x^2 + 7x + 2 = 0$

⑪ $6x^2 - x - 1 = 0$

⑱ $x^2 - 3x - 2 = 0$

⑤ $x^2 - 8x + 9 = 0$

⑫ $4x^2 + 7x - 2 = 0$

⑲ $7x^2 - 6x - 1 = 0$

⑥ $4x^2 - 4x - 3 = 0$

⑬ $3x^2 + x - 2 = 0$

⑳ $5x^2 + 6x + 1 = 0$

⑦ $9x^2 + 8x - 1 = 0$

⑭ $x^2 - 5x + 1 = 0$

㉑ $x^2 + 5x + 5 = 0$

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■ 次の方程式を解きなさい。

① $2x^2 + 4x - 1 = 0$

$$x = \frac{-2 \pm \sqrt{6}}{2}$$

② $x^2 - 6x + 4 = 0$

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

③ $2x^2 + 8x - 1 = 0$

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

④ $2x^2 + 7x + 2 = 0$

$$x = \frac{-7 \pm \sqrt{33}}{4}$$

⑤ $x^2 - 8x + 9 = 0$

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

⑥ $4x^2 - 4x - 3 = 0$

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

⑦ $9x^2 + 8x - 1 = 0$

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

⑧ $3x^2 + 7x + 4 = 0$

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

⑨ $5x^2 + 5x - 1 = 0$

$$x = \frac{-5 \pm 3\sqrt{5}}{10}$$

⑩ $5x^2 - 2x - 2 = 0$

$$x = \frac{1 \pm \sqrt{11}}{5}$$

⑪ $6x^2 - x - 1 = 0$

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

⑫ $4x^2 + 7x - 2 = 0$

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

⑬ $3x^2 + x - 2 = 0$

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

⑭ $x^2 - 5x + 1 = 0$

$$x = \frac{5 \pm \sqrt{21}}{2}$$

⑮ $5x^2 - 4x - 1 = 0$

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

⑯ $7x^2 + 4x - 3 = 0$

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

⑰ $2x^2 + 5x - 7 = 0$

$$x = \frac{-5 \pm 9}{4} \\ = 1, -\frac{7}{2}$$

⑱ $x^2 - 3x - 2 = 0$

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

⑲ $7x^2 - 6x - 1 = 0$

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

⑳ $5x^2 + 6x + 1 = 0$

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

㉑ $x^2 + 5x + 5 = 0$

$$x = \frac{-5 \pm \sqrt{5}}{2}$$