

2次方程式

年 組 名前

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■ 次の方程式を解きなさい。

① $5x^2 - 9x + 3 = 0$

⑧ $x^2 + 3x - 6 = 0$

⑮ $x^2 - 5x - 1 = 0$

② $4x^2 + 6x + 1 = 0$

⑨ $x^2 - 8x + 3 = 0$

⑯ $2x^2 + 5x + 2 = 0$

③ $5x^2 + 9x + 4 = 0$

⑩ $5x^2 - 7x + 2 = 0$

⑰ $4x^2 - x - 3 = 0$

④ $2x^2 - 7x - 4 = 0$

⑪ $9x^2 - 7x + 1 = 0$

⑱ $2x^2 - x - 6 = 0$

⑤ $2x^2 - 5x - 3 = 0$

⑫ $3x^2 - 4x - 1 = 0$

⑲ $3x^2 - x - 4 = 0$

⑥ $5x^2 - 3x - 1 = 0$

⑬ $x^2 + x - 1 = 0$

⑳ $x^2 + 6x + 1 = 0$

⑦ $5x^2 + 2x - 3 = 0$

⑭ $9x^2 - 3x - 2 = 0$

㉑ $x^2 - x - 5 = 0$

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■ 次の方程式を解きなさい。

① $5x^2 - 9x + 3 = 0$

$$x = \frac{9 \pm \sqrt{21}}{10}$$

② $4x^2 + 6x + 1 = 0$

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

③ $5x^2 + 9x + 4 = 0$

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

④ $2x^2 - 7x - 4 = 0$

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

⑤ $2x^2 - 5x - 3 = 0$

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

⑥ $5x^2 - 3x - 1 = 0$

$$x = \frac{3 \pm \sqrt{29}}{10}$$

⑦ $5x^2 + 2x - 3 = 0$

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

⑧ $x^2 + 3x - 6 = 0$

$$x = \frac{-3 \pm \sqrt{33}}{2}$$

⑨ $x^2 - 8x + 3 = 0$

$$x = 4 \pm \sqrt{13}$$

⑩ $5x^2 - 7x + 2 = 0$

$$x = \frac{7 \pm 3}{10}$$
$$= 1, \frac{2}{5}$$

⑪ $9x^2 - 7x + 1 = 0$

$$x = \frac{7 \pm \sqrt{13}}{18}$$

⑫ $3x^2 - 4x - 1 = 0$

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

⑬ $x^2 + x - 1 = 0$

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

⑭ $9x^2 - 3x - 2 = 0$

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

⑮ $x^2 - 5x - 1 = 0$

$$x = \frac{5 \pm \sqrt{29}}{2}$$

⑯ $2x^2 + 5x + 2 = 0$

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

⑰ $4x^2 - x - 3 = 0$

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

⑱ $2x^2 - x - 6 = 0$

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

⑲ $3x^2 - x - 4 = 0$

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

⑳ $x^2 + 6x + 1 = 0$

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

㉑ $x^2 - x - 5 = 0$

$$x = \frac{1 \pm \sqrt{21}}{2}$$