

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 $2x^2 - 7x - 4 = 0$

⑧ $6x^2 + 6x + 1 = 0$

⑮ $5x^2 + 9x + 3 = 0$

② $7x^2 + 6x + 1 = 0$

⑨ $5x^2 - x - 2 = 0$

⑯ $3x^2 + 5x + 2 = 0$

③ $3x^2 + x - 2 = 0$

⑩ $x^2 + 7x + 5 = 0$

⑰ $2x^2 - 9x + 7 = 0$

④ $2x^2 + 3x - 5 = 0$

⑪ $3x^2 - x - 2 = 0$

⑱ $5x^2 + 3x - 2 = 0$

⑤ $9x^2 - 3x - 2 = 0$

⑫ $3x^2 - 2x - 1 = 0$

⑲ $2x^2 - x - 1 = 0$

⑥ $x^2 - 8x + 4 = 0$

⑬ $5x^2 + 7x + 2 = 0$

⑳ $x^2 - x - 9 = 0$

⑦ $9x^2 + 9x + 1 = 0$

⑭ $7x^2 - x - 1 = 0$

㉑ $3x^2 - 2x - 2 = 0$

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■ 次の方程式を解きなさい。

① $2x^2 - 7x - 4 = 0$

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

② $7x^2 + 6x + 1 = 0$

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

③ $3x^2 + x - 2 = 0$

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

④ $2x^2 + 3x - 5 = 0$

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

⑤ $9x^2 - 3x - 2 = 0$

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

⑥ $x^2 - 8x + 4 = 0$

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

⑦ $9x^2 + 9x + 1 = 0$

$$x = \frac{-3 \pm \sqrt{5}}{6}$$

⑧ $6x^2 + 6x + 1 = 0$

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

⑨ $5x^2 - x - 2 = 0$

$$x = \frac{1 \pm \sqrt{41}}{10}$$

⑩ $x^2 + 7x + 5 = 0$

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

⑪ $3x^2 - x - 2 = 0$

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

⑫ $3x^2 - 2x - 1 = 0$

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

⑬ $5x^2 + 7x + 2 = 0$

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

⑭ $7x^2 - x - 1 = 0$

$$x = \frac{1 \pm \sqrt{29}}{14}$$

⑮ $5x^2 + 9x + 3 = 0$

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

⑯ $3x^2 + 5x + 2 = 0$

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

⑰ $2x^2 - 9x + 7 = 0$

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

⑱ $5x^2 + 3x - 2 = 0$

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

⑲ $2x^2 - x - 1 = 0$

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

⑳ $x^2 - x - 9 = 0$

$$x = \frac{1 \pm \sqrt{37}}{2}$$

㉑ $3x^2 - 2x - 2 = 0$

$$x = \frac{1 \pm \sqrt{7}}{3}$$