

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 $5x^2 + 4x - 1 = 0$

⑧ $4x^2 + x - 5 = 0$

⑮ $x^2 - 6x - 2 = 0$

② $3x^2 + 2x - 5 = 0$

⑨ $2x^2 + 7x + 3 = 0$

⑯ $x^2 + 4x - 3 = 0$

③ $6x^2 - x - 1 = 0$

⑩ $3x^2 - 7x + 2 = 0$

⑰ $7x^2 + 6x + 1 = 0$

④ $2x^2 + 3x - 9 = 0$

⑪ $3x^2 - 2x - 8 = 0$

⑱ $2x^2 - 8x + 5 = 0$

⑤ $x^2 + 7x - 1 = 0$

⑫ $8x^2 - 2x - 3 = 0$

⑲ $x^2 - 5x + 5 = 0$

⑥ $x^2 + 3x - 1 = 0$

⑬ $8x^2 - 2x - 1 = 0$

⑳ $x^2 + 5x + 2 = 0$

⑦ $7x^2 - 5x - 2 = 0$

⑭ $2x^2 + 2x - 1 = 0$

㉑ $3x^2 - 4x - 1 = 0$

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■ 次の方程式を解きなさい。

① $5x^2+4x-1=0$

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

② $3x^2+2x-5=0$

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

③ $6x^2-x-1=0$

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

④ $2x^2+3x-9=0$

$$x = \frac{-3 \pm 9}{4}$$
$$= \frac{3}{2}, -3$$

⑤ $x^2+7x-1=0$

$$x = \frac{-7 \pm \sqrt{53}}{2}$$

⑥ $x^2+3x-1=0$

$$x = \frac{-3 \pm \sqrt{13}}{2}$$

⑦ $7x^2-5x-2=0$

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

⑧ $4x^2+x-5=0$

$$x = \frac{-1 \pm 9}{8}$$
$$= 1, -\frac{5}{4}$$

⑨ $2x^2+7x+3=0$

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

⑩ $3x^2-7x+2=0$

$$x = \frac{7 \pm 5}{6}$$
$$= 2, \frac{1}{3}$$

⑪ $3x^2-2x-8=0$

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

⑫ $8x^2-2x-3=0$

$$x = \frac{1 \pm 5}{8}$$
$$= \frac{3}{4}, -\frac{1}{2}$$

⑬ $8x^2-2x-1=0$

$$x = \frac{1 \pm 3}{8}$$
$$= \frac{1}{2}, -\frac{1}{4}$$

⑭ $2x^2+2x-1=0$

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

⑮ $x^2-6x-2=0$

$$x = 3 \pm \sqrt{11}$$

⑯ $x^2+4x-3=0$

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

⑰ $7x^2+6x+1=0$

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

⑱ $2x^2-8x+5=0$

$$x = \frac{4 \pm \sqrt{6}}{2}$$

⑲ $x^2-5x+5=0$

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

⑳ $x^2+5x+2=0$

$$x = \frac{-5 \pm \sqrt{17}}{2}$$

㉑ $3x^2-4x-1=0$

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