

# 2次方程式

年 組 名前

/21

■ 次の方程式を解きなさい。

①  $3x^2 + 2x - 4 = 0$

⑧  $5x^2 - 4x - 1 = 0$

⑮  $3x^2 - 2x - 5 = 0$

②  $4x^2 - 3x - 1 = 0$

⑨  $6x^2 + 7x + 1 = 0$

⑯  $x^2 - 7x + 2 = 0$

③  $4x^2 + 6x + 1 = 0$

⑩  $6x^2 - 8x + 1 = 0$

⑰  $x^2 + 8x - 2 = 0$

④  $2x^2 + 4x + 1 = 0$

⑪  $4x^2 - 5x + 1 = 0$

⑱  $x^2 - 8x + 9 = 0$

⑤  $2x^2 + 3x + 1 = 0$

⑫  $2x^2 + 2x - 1 = 0$

⑲  $2x^2 + 8x + 5 = 0$

⑥  $8x^2 - 2x - 3 = 0$

⑬  $4x^2 + 9x + 5 = 0$

⑳  $4x^2 - 4x - 3 = 0$

⑦  $4x^2 + 8x - 1 = 0$

⑭  $5x^2 + 8x + 2 = 0$

㉑  $3x^2 - 2x - 8 = 0$

# 2次方程式

年 組 名前

/21

■ 次の方程式を解きなさい。

①  $3x^2 + 2x - 4 = 0$

$$x = \frac{-1 \pm \sqrt{13}}{3}$$

②  $4x^2 - 3x - 1 = 0$

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

③  $4x^2 + 6x + 1 = 0$

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

④  $2x^2 + 4x + 1 = 0$

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

⑤  $2x^2 + 3x + 1 = 0$

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

⑥  $8x^2 - 2x - 3 = 0$

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

⑦  $4x^2 + 8x - 1 = 0$

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

⑧  $5x^2 - 4x - 1 = 0$

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

⑨  $6x^2 + 7x + 1 = 0$

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

⑩  $6x^2 - 8x + 1 = 0$

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

⑪  $4x^2 - 5x + 1 = 0$

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

⑫  $2x^2 + 2x - 1 = 0$

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

⑬  $4x^2 + 9x + 5 = 0$

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

⑭  $5x^2 + 8x + 2 = 0$

$$x = \frac{-4 \pm \sqrt{6}}{5}$$

⑮  $3x^2 - 2x - 5 = 0$

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

⑯  $x^2 - 7x + 2 = 0$

$$x = \frac{7 \pm \sqrt{41}}{2}$$

⑰  $x^2 + 8x - 2 = 0$

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

⑱  $x^2 - 8x + 9 = 0$

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

⑲  $2x^2 + 8x + 5 = 0$

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

⑳  $4x^2 - 4x - 3 = 0$

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

㉑  $3x^2 - 2x - 8 = 0$

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