

# 2次方程式

年 組 名前

/18

■ 次の方程式を解きなさい。

①  $x^2 - 36 = 0$

$x =$

②  $36x^2 + 74 = 270$

$x =$

③  $49x^2 - 10 = 0$

$x =$

④  $9x^2 + 1 = 9$

$x =$

⑤  $x^2 - 50 = 0$

$x =$

⑥  $2x^2 - 8 = 28$

$x =$

⑦  $x^2 = 25$

$x =$

⑧  $x^2 - 15 = 0$

$x =$

⑨  $4x^2 = 63$

$x =$

⑩  $6x^2 - 168 = 0$

$x =$

⑪  $2x^2 + 8 = 136$

$x =$

⑫  $49x^2 - 4 = 0$

$x =$

⑬  $x^2 - 1 = 37$

$x =$

⑭  $12x^2 - 69 = 0$

$x =$

⑮  $4x^2 = 25$

$x =$

⑯  $x^2 - 4 = 12$

$x =$

⑰  $18x^2 - 88 = 0$

$x =$

⑱  $45x^2 = 100$

$x =$

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■ 次の方程式を解きなさい。

①  $x^2 - 36 = 0$

$x^2 = 36$

$x = \pm 6$

②  $36x^2 + 74 = 270$

$36x^2 = 196$

$9x^2 = 49$

$x^2 = \frac{49}{9}$

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

③  $49x^2 - 10 = 0$

$49x^2 = 10$

$x^2 = \frac{10}{49}$

$x = \pm \frac{\sqrt{10}}{7}$

④  $9x^2 + 1 = 9$

$9x^2 = 8$

$x^2 = \frac{8}{9}$

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

⑤  $x^2 - 50 = 0$

$x^2 = 50$

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

⑥  $2x^2 - 8 = 28$

$2x^2 = 36$

$x^2 = 18$

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

⑦  $x^2 = 25$

$x = \pm 5$

⑧  $x^2 - 15 = 0$

$x^2 = 15$

$x = \pm \sqrt{15}$

⑨  $4x^2 = 63$

$x^2 = \frac{63}{4}$

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

⑩  $6x^2 - 168 = 0$

$6x^2 = 168$

$x^2 = 28$

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

⑪  $2x^2 + 8 = 136$

$2x^2 = 128$

$x^2 = 64$

$x = \pm 8$

⑫  $49x^2 - 4 = 0$

$49x^2 = 4$

$x^2 = \frac{4}{49}$

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

⑬  $x^2 - 1 = 37$

$x^2 = 38$

$x = \pm \sqrt{38}$

⑭  $12x^2 - 69 = 0$

$12x^2 = 69$

$4x^2 = 23$

$x^2 = \frac{23}{4}$

$x = \pm \frac{\sqrt{23}}{2}$

⑮  $4x^2 = 25$

$x^2 = \frac{25}{4}$

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

⑯  $x^2 - 4 = 12$

$x^2 = 16$

$x = \pm 4$

⑰  $18x^2 - 88 = 0$

$18x^2 = 88$

$9x^2 = 44$

$x^2 = \frac{44}{9}$

$x = \pm \frac{2\sqrt{11}}{3}$

⑱  $45x^2 = 100$

$9x^2 = 20$

$x^2 = \frac{20}{9}$

$x = \pm \frac{2\sqrt{5}}{3}$