

# 2次方程式

年 組 名前

/18

■ 次の方程式を解きなさい。

①  $x^2 + 4 = 5$

$x =$

②  $4x^2 - 9 = 0$

$x =$

③  $16x^2 + 12 = 37$

$x =$

④  $16x^2 = 49$

$x =$

⑤  $125x^2 + 6 = 76$

$x =$

⑥  $x^2 + 3 = 34$

$x =$

⑦  $75x^2 - 3 = 24$

$x =$

⑧  $49x^2 - 13 = 0$

$x =$

⑨  $100x^2 - 196 = 0$

$x =$

⑩  $4x^2 - 63 = 0$

$x =$

⑪  $2x^2 = 64$

$x =$

⑫  $x^2 = 24$

$x =$

⑬  $3x^2 + 25 = 205$

$x =$

⑭  $9x^2 - 72 = 0$

$x =$

⑮  $x^2 = 34$

$x =$

⑯  $9x^2 + 6 = 38$

$x =$

⑰  $50x^2 = 6$

$x =$

⑱  $x^2 - 44 = 0$

$x =$

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■ 次の方程式を解きなさい。

①  $x^2 + 4 = 5$

$x^2 = 1$

$x = \pm 1$

②  $4x^2 - 9 = 0$

$4x^2 = 9$

$x^2 = \frac{9}{4}$

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

③  $16x^2 + 12 = 37$

$16x^2 = 25$

$x^2 = \frac{25}{16}$

$x = \pm \frac{5}{4}$

④  $16x^2 = 49$

$x^2 = \frac{49}{16}$

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

⑤  $125x^2 + 6 = 76$

$125x^2 = 70$

$25x^2 = 14$

$x^2 = \frac{14}{25}$

$x = \pm \frac{\sqrt{14}}{5}$

⑥  $x^2 + 3 = 34$

$x^2 = 31$

$x = \pm \sqrt{31}$

⑦  $75x^2 - 3 = 24$

$75x^2 = 27$

$25x^2 = 9$

$x^2 = \frac{9}{25}$

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

⑧  $49x^2 - 13 = 0$

$49x^2 = 13$

$x^2 = \frac{13}{49}$

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

⑨  $100x^2 - 196 = 0$

$100x^2 = 196$

$25x^2 = 49$

$x^2 = \frac{49}{25}$

$x = \pm \frac{7}{5}$

⑩  $4x^2 - 63 = 0$

$4x^2 = 63$

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

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

⑪  $2x^2 = 64$

$x^2 = 32$

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

⑫  $x^2 = 24$

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

⑬  $3x^2 + 25 = 205$

$3x^2 = 180$

$x^2 = 60$

$x = \pm 2\sqrt{15}$

⑭  $9x^2 - 72 = 0$

$9x^2 = 72$

$x^2 = 8$

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

⑮  $x^2 = 34$

$x = \pm \sqrt{34}$

⑯  $9x^2 + 6 = 38$

$9x^2 = 32$

$x^2 = \frac{32}{9}$

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

⑰  $50x^2 = 6$

$25x^2 = 3$

$x^2 = \frac{3}{25}$

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

⑱  $x^2 - 44 = 0$

$x^2 = 44$

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