

# 2次方程式

\_\_\_\_年 \_\_\_\_組 名前

/18

■ 次の方程式を解きなさい。

①  $3x^2 + 9 = 117$

$x =$

②  $x^2 - 22 = 0$

$x =$

③  $25x^2 = 4$

$x =$

④  $80x^2 = 105$

$x =$

⑤  $16x^2 - 63 = 0$

$x =$

⑥  $49x^2 - 25 = 0$

$x =$

⑦  $x^2 = 7$

$x =$

⑧  $x^2 + 8 = 52$

$x =$

⑨  $x^2 + 4 = 19$

$x =$

⑩  $108x^2 - 3 = 72$

$x =$

⑪  $x^2 + 8 = 12$

$x =$

⑫  $16x^2 - 15 = 0$

$x =$

⑬  $5x^2 - 3 = 197$

$x =$

⑭  $49x^2 - 2 = 20$

$x =$

⑮  $x^2 = 32$

$x =$

⑯  $9x^2 + 4 = 32$

$x =$

⑰  $2x^2 = 52$

$x =$

⑱  $8x^2 - 168 = 0$

$x =$

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■ 次の方程式を解きなさい。

①  $3x^2 + 9 = 117$

$3x^2 = 108$

$x^2 = 36$

$x = \pm 6$

②  $x^2 - 22 = 0$

$x^2 = 22$

$x = \pm \sqrt{22}$

③  $25x^2 = 4$

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

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

④  $80x^2 = 105$

$16x^2 = 21$

$x^2 = \frac{21}{16}$

$x = \pm \frac{\sqrt{21}}{4}$

⑤  $16x^2 - 63 = 0$

$16x^2 = 63$

$x^2 = \frac{63}{16}$

$x = \pm \frac{3\sqrt{7}}{4}$

⑥  $49x^2 - 25 = 0$

$49x^2 = 25$

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

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

⑦  $x^2 = 7$

$x = \pm \sqrt{7}$

⑧  $x^2 + 8 = 52$

$x^2 = 44$

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

⑨  $x^2 + 4 = 19$

$x^2 = 15$

$x = \pm \sqrt{15}$

⑩  $108x^2 - 3 = 72$

$108x^2 = 75$

$36x^2 = 25$

$x^2 = \frac{25}{36}$

$x = \pm \frac{5}{6}$

⑪  $x^2 + 8 = 12$

$x^2 = 4$

$x = \pm 2$

⑫  $16x^2 - 15 = 0$

$16x^2 = 15$

$x^2 = \frac{15}{16}$

$x = \pm \frac{\sqrt{15}}{4}$

⑬  $5x^2 - 3 = 197$

$5x^2 = 200$

$x^2 = 40$

$x = \pm 2\sqrt{10}$

⑭  $49x^2 - 2 = 20$

$49x^2 = 22$

$x^2 = \frac{22}{49}$

$x = \pm \frac{\sqrt{22}}{7}$

⑮  $x^2 = 32$

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

⑯  $9x^2 + 4 = 32$

$9x^2 = 28$

$x^2 = \frac{28}{9}$

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

⑰  $2x^2 = 52$

$x^2 = 26$

$x = \pm \sqrt{26}$

⑱  $8x^2 - 168 = 0$

$8x^2 = 168$

$x^2 = 21$

$x = \pm \sqrt{21}$