

2次方程式

年 組 名前

/18

■ 次の方程式を解きなさい。

① $x^2 + 5 = 9$

$x =$

② $2x^2 - 9 = 59$

$x =$

③ $2x^2 - 16 = 0$

$x =$

④ $36x^2 = 160$

$x =$

⑤ $x^2 + 11 = 59$

$x =$

⑥ $75x^2 = 12$

$x =$

⑦ $4x^2 - 49 = 0$

$x =$

⑧ $x^2 = 12$

$x =$

⑨ $80x^2 = 145$

$x =$

⑩ $6x^2 = 198$

$x =$

⑪ $32x^2 + 33 = 183$

$x =$

⑫ $147x^2 - 14 = 61$

$x =$

⑬ $2x^2 - 162 = 0$

$x =$

⑭ $6x^2 - 4 = 146$

$x =$

⑮ $9x^2 - 8 = 0$

$x =$

⑯ $x^2 - 28 = 0$

$x =$

⑰ $2x^2 = 104$

$x =$

⑱ $9x^2 = 49$

$x =$

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■ 次の方程式を解きなさい。

① $x^2 + 5 = 9$

$x^2 = 4$

$x = \pm 2$

② $2x^2 - 9 = 59$

$2x^2 = 68$

$x^2 = 34$

$x = \pm \sqrt{34}$

③ $2x^2 - 16 = 0$

$2x^2 = 16$

$x^2 = 8$

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

④ $36x^2 = 160$

$9x^2 = 40$

$x^2 = \frac{40}{9}$

$x = \pm \frac{2\sqrt{10}}{3}$

⑤ $x^2 + 11 = 59$

$x^2 = 48$

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

⑥ $75x^2 = 12$

$25x^2 = 4$

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

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

⑦ $4x^2 - 49 = 0$

$4x^2 = 49$

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

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

⑧ $x^2 = 12$

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

⑨ $80x^2 = 145$

$16x^2 = 29$

$x^2 = \frac{29}{16}$

$x = \pm \frac{\sqrt{29}}{4}$

⑩ $6x^2 = 198$

$x^2 = 33$

$x = \pm \sqrt{33}$

⑪ $32x^2 + 33 = 183$

$32x^2 = 150$

$16x^2 = 75$

$x^2 = \frac{75}{16}$

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

⑫ $147x^2 - 14 = 61$

$147x^2 = 75$

$49x^2 = 25$

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

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

⑬ $2x^2 - 162 = 0$

$2x^2 = 162$

$x^2 = 81$

$x = \pm 9$

⑭ $6x^2 - 4 = 146$

$6x^2 = 150$

$x^2 = 25$

$x = \pm 5$

⑮ $9x^2 - 8 = 0$

$9x^2 = 8$

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

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

⑯ $x^2 - 28 = 0$

$x^2 = 28$

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

⑰ $2x^2 = 104$

$x^2 = 52$

$x = \pm 2\sqrt{13}$

⑱ $9x^2 = 49$

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

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