

2次方程式

年 組 名前

/18

■ 次の方程式を解きなさい。

① $x^2 - 4 = 0$

$x =$

⑦ $x^2 = 12$

$x =$

⑬ $9x^2 - 13 = 0$

$x =$

② $2x^2 + 5 = 105$

$x =$

⑧ $2x^2 = 46$

$x =$

⑭ $4x^2 = 128$

$x =$

③ $64x^2 + 75 = 255$

$x =$

⑨ $3x^2 - 180 = 0$

$x =$

⑮ $25x^2 - 3 = 46$

$x =$

④ $x^2 - 18 = 30$

$x =$

⑩ $x^2 - 16 = 0$

$x =$

⑯ $6x^2 - 1 = 53$

$x =$

⑤ $32x^2 = 126$

$x =$

⑪ $3x^2 - 7 = 92$

$x =$

⑰ $36x^2 + 38 = 138$

$x =$

⑥ $16x^2 = 75$

$x =$

⑫ $49x^2 = 36$

$x =$

⑱ $4x^2 = 21$

$x =$

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■ 次の方程式を解きなさい。

① $x^2 - 4 = 0$

$x^2 = 4$

$x = \pm 2$

② $2x^2 + 5 = 105$

$2x^2 = 100$

$x^2 = 50$

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

③ $64x^2 + 75 = 255$

$64x^2 = 180$

$16x^2 = 45$

$x^2 = \frac{45}{16}$

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

④ $x^2 - 18 = 30$

$x^2 = 48$

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

⑤ $32x^2 = 126$

$16x^2 = 63$

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

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

⑥ $16x^2 = 75$

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

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

⑦ $x^2 = 12$

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

⑧ $2x^2 = 46$

$x^2 = 23$

$x = \pm \sqrt{23}$

⑨ $3x^2 - 180 = 0$

$3x^2 = 180$

$x^2 = 60$

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

⑩ $x^2 - 16 = 0$

$x^2 = 16$

$x = \pm 4$

⑪ $3x^2 - 7 = 92$

$3x^2 = 99$

$x^2 = 33$

$x = \pm \sqrt{33}$

⑫ $49x^2 = 36$

$x^2 = \frac{36}{49}$

$x = \pm \frac{6}{7}$

⑬ $9x^2 - 13 = 0$

$9x^2 = 13$

$x^2 = \frac{13}{9}$

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

⑭ $4x^2 = 128$

$x^2 = 32$

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

⑮ $25x^2 - 3 = 46$

$25x^2 = 49$

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

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

⑯ $6x^2 - 1 = 53$

$6x^2 = 54$

$x^2 = 9$

$x = \pm 3$

⑰ $36x^2 + 38 = 138$

$36x^2 = 100$

$9x^2 = 25$

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

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

⑱ $4x^2 = 21$

$x^2 = \frac{21}{4}$

$x = \pm \frac{\sqrt{21}}{2}$