

2次方程式

年 組 名前

/18

■ 次の方程式を解きなさい。

① $3x^2 + 2 = 77$

$x =$

⑦ $36x^2 + 2 = 31$

$x =$

⑬ $x^2 + 5 = 25$

$x =$

② $16x^2 - 7 = 68$

$x =$

⑧ $98x^2 - 1 = 3$

$x =$

⑭ $3x^2 = 105$

$x =$

③ $25x^2 = 22$

$x =$

⑨ $x^2 = 63$

$x =$

⑮ $8x^2 - 18 = 0$

$x =$

④ $2x^2 - 16 = 88$

$x =$

⑩ $x^2 - 17 = 0$

$x =$

⑯ $9x^2 = 28$

$x =$

⑤ $4x^2 - 75 = 0$

$x =$

⑪ $3x^2 = 96$

$x =$

⑰ $8x^2 - 96 = 0$

$x =$

⑥ $4x^2 - 19 = 0$

$x =$

⑫ $49x^2 = 9$

$x =$

⑱ $4x^2 - 136 = 0$

$x =$

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■ 次の方程式を解きなさい。

① $3x^2 + 2 = 77$

$3x^2 = 75$

$x^2 = 25$

$x = \pm 5$

② $16x^2 - 7 = 68$

$16x^2 = 75$

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

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

③ $25x^2 = 22$

$x^2 = \frac{22}{25}$

$x = \pm \frac{\sqrt{22}}{5}$

④ $2x^2 - 16 = 88$

$2x^2 = 104$

$x^2 = 52$

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

⑤ $4x^2 - 75 = 0$

$4x^2 = 75$

$x^2 = \frac{75}{4}$

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

⑥ $4x^2 - 19 = 0$

$4x^2 = 19$

$x^2 = \frac{19}{4}$

$x = \pm \frac{\sqrt{19}}{2}$

⑦ $36x^2 + 2 = 31$

$36x^2 = 29$

$x^2 = \frac{29}{36}$

$x = \pm \frac{\sqrt{29}}{6}$

⑧ $98x^2 - 1 = 3$

$98x^2 = 4$

$49x^2 = 2$

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

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

⑨ $x^2 = 63$

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

⑩ $x^2 - 17 = 0$

$x^2 = 17$

$x = \pm \sqrt{17}$

⑪ $3x^2 = 96$

$x^2 = 32$

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

⑫ $49x^2 = 9$

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

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

⑬ $x^2 + 5 = 25$

$x^2 = 20$

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

⑭ $3x^2 = 105$

$x^2 = 35$

$x = \pm \sqrt{35}$

⑮ $8x^2 - 18 = 0$

$8x^2 = 18$

$4x^2 = 9$

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

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

⑯ $9x^2 = 28$

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

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

⑰ $8x^2 - 96 = 0$

$8x^2 = 96$

$x^2 = 12$

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

⑱ $4x^2 - 136 = 0$

$4x^2 = 136$

$x^2 = 34$

$x = \pm \sqrt{34}$