■ 次の方程式を解きなさい。

① $x^2 - 25 = 0$

$x =$

② $x^2 + 2 = 3$

$x =$

③ $18x^2 = 50$

$x =$

④ $2x^2 - 128 = 0$

$x =$

⑤ $x^2 - 3 = 27$

$x =$

⑥ $x^2 - 2 = 0$

$x =$

⑦ $8x^2 - 18 = 0$

$x =$

⑧ $4x^2 = 45$

$x =$

⑨ $9x^2 - 28 = 0$

$x =$

⑩ $9x^2 = 144$

$x =$

⑪ $x^2 = 60$

$x =$

⑫ $x^2 - 32 = 0$

$x =$

⑬ $32x^2 - 54 = 0$

$x =$

⑭ $2x^2 = 42$

$x =$

⑮ $x^2 - 9 = 19$

$x =$

⑯ $49x^2 = 30$

$x =$

⑰ $196x^2 - 3 = 21$

$x =$

⑱ $75x^2 + 3 = 15$

$x =$

2次方程式

■ 次の方程式を解きなさい。

① $x^2 - 25 = 0$

$x^2 = 25$

$x = \pm 5$

② $x^2 + 2 = 3$

$x^2 = 1$

$x = \pm 1$

③ $18x^2 = 50$

$9x^2 = 25$

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

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

④ $2x^2 - 128 = 0$

$2x^2 = 128$

$x^2 = 64$

$x = \pm 8$

⑤ $x^2 - 3 = 27$

$x^2 = 30$

$x = \pm\sqrt{30}$

⑥ $x^2 - 2 = 0$

$x^2 = 2$

$x = \pm\sqrt{2}$

⑦ $8x^2 - 18 = 0$

$8x^2 = 18$

$4x^2 = 9$

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

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

⑧ $4x^2 = 45$

$x^2 = \dfrac{45}{4}$

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

⑨ $9x^2 - 28 = 0$

$9x^2 = 28$

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

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

⑩ $9x^2 = 144$

$x^2 = 16$

$x = \pm 4$

⑪ $x^2 = 60$

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

⑫ $x^2 - 32 = 0$

$x^2 = 32$

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

⑬ $32x^2 - 54 = 0$

$32x^2 = 54$

$16x^2 = 27$

$x^2 = \dfrac{27}{16}$

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

⑭ $2x^2 = 42$

$x^2 = 21$

$x = \pm\sqrt{21}$

⑮ $x^2 - 9 = 19$

$x^2 = 28$

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

⑯ $49x^2 = 30$

$x^2 = \dfrac{30}{49}$

$x = \pm \dfrac{\sqrt{30}}{7}$

⑰ $196x^2 - 3 = 21$

$196x^2 = 24$

$49x^2 = 6$

$x^2 = \dfrac{6}{49}$

$x = \pm \dfrac{\sqrt{6}}{7}$

⑱ $75x^2 + 3 = 15$

$75x^2 = 12$

$25x^2 = 4$

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

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