

2次方程式

年 組 名前

/24

■ 次の方程式を解きなさい。

① $6x^2 + x = 0$

② $x^2 - 49 = 0$

③ $x^2 + x - 42 = 0$

④ $25x^2 + 20x + 4 = 0$

⑤ $3x^2 + 2x = 0$

⑥ $x^2 - 4x + 4 = 0$

⑦ $x^2 + 12x + 27 = 0$

⑧ $x^2 + 13x - 30 = 0$

⑨ $4x^2 + 12x + 9 = 0$

⑩ $9x^2 - 1 = 0$

⑪ $x^2 + 10x + 24 = 0$

⑫ $x^2 - 13x + 12 = 0$

⑬ $x^2 - 5x - 14 = 0$

⑭ $x^2 + 6x - 40 = 0$

⑮ $25x^2 - 10x + 1 = 0$

⑯ $x^2 - 9x + 18 = 0$

⑰ $16x^2 - 9 = 0$

⑱ $x^2 - 8x - 20 = 0$

⑲ $x^2 - 7x + 6 = 0$

⑳ $x^2 - 2x - 63 = 0$

㉑ $x^2 - x = 0$

㉒ $2x^2 - x = 0$

㉓ $x^2 + 12x + 36 = 0$

㉔ $x^2 + 3x + 2 = 0$

■ 次の方程式を解きなさい。

① $6x^2 + x = 0$

$x(6x+1)=0$

$x=0, -\frac{1}{6}$

② $x^2 - 49 = 0$

$(x+7)(x-7)=0$

$x = \pm 7$

③ $x^2 + x - 42 = 0$

$(x-6)(x+7)=0$

$x = 6, -7$

④ $25x^2 + 20x + 4 = 0$

$(5x+2)^2=0$

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

⑤ $3x^2 + 2x = 0$

$x(3x+2)=0$

$x=0, -\frac{2}{3}$

⑥ $x^2 - 4x + 4 = 0$

$(x-2)^2=0$

$x=2$

⑦ $x^2 + 12x + 27 = 0$

$(x+3)(x+9)=0$

$x = -3, -9$

⑧ $x^2 + 13x - 30 = 0$

$(x-2)(x+15)=0$

$x = 2, -15$

⑨ $4x^2 + 12x + 9 = 0$

$(2x+3)^2=0$

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

⑩ $9x^2 - 1 = 0$

$(3x+1)(3x-1)=0$

$x = \pm \frac{1}{3}$

⑪ $x^2 + 10x + 24 = 0$

$(x+4)(x+6)=0$

$x = -4, -6$

⑫ $x^2 - 13x + 12 = 0$

$(x-1)(x-12)=0$

$x = 1, 12$

⑬ $x^2 - 5x - 14 = 0$

$(x+2)(x-7)=0$

$x = -2, 7$

⑭ $x^2 + 6x - 40 = 0$

$(x-4)(x+10)=0$

$x = 4, -10$

⑮ $25x^2 - 10x + 1 = 0$

$(5x-1)^2=0$

$x = \frac{1}{5}$

⑯ $x^2 - 9x + 18 = 0$

$(x-3)(x-6)=0$

$x = 3, 6$

⑰ $16x^2 - 9 = 0$

$(4x+3)(4x-3)=0$

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

⑱ $x^2 - 8x - 20 = 0$

$(x+2)(x-10)=0$

$x = -2, 10$

⑲ $x^2 - 7x + 6 = 0$

$(x-1)(x-6)=0$

$x = 1, 6$

⑳ $x^2 - 2x - 63 = 0$

$(x+7)(x-9)=0$

$x = -7, 9$

㉑ $x^2 - x = 0$

$x(x-1)=0$

$x = 0, 1$

㉒ $2x^2 - x = 0$

$x(2x-1)=0$

$x = 0, \frac{1}{2}$

㉓ $x^2 + 12x + 36 = 0$

$(x+6)^2=0$

$x = -6$

㉔ $x^2 + 3x + 2 = 0$

$(x+1)(x+2)=0$

$x = -1, -2$