

因数分解による解き方 1

NO.3

名前

/10 点

◆ 次の2次方程式を因数分解を用いて解きなさい。

① $x^2 + 8x = 0$

② $x^2 - 9 = 0$

③ $x^2 + 6x + 8 = 0$

④ $x^2 - 14x + 49 = 0$

⑤ $x^2 - 4x - 5 = 0$

⑥ $x^2 + 2x - 8 = 0$

⑦ $x^2 + 6x + 9 = 0$

⑧ $x^2 + 10x + 21 = 0$

⑨ $2x^2 + 10x + 12 = 0$

⑩ $3x^2 + 18x - 21 = 0$

解答

$$\textcircled{1} \quad x (x + 8) = 0$$

$$x = 0 , -8$$

$$\textcircled{2} \quad (x + 3) (x - 3) = 0$$

$$x = \pm 3$$

$$\textcircled{3} \quad (x + 2) (x + 4) = 0$$

$$x = -2 , -4$$

$$\textcircled{4} \quad (x - 7) ^ 2 = 0$$

$$x = 7$$

$$\textcircled{5} \quad (x + 1) (x - 5) = 0$$

$$x = -1 , 5$$

$$\textcircled{6} \quad (x - 2) (x + 4) = 0$$

$$x = 2 , -4$$

$$\textcircled{7} \quad (x + 3) ^ 2 = 0$$

$$x = -3$$

$$\textcircled{8} \quad (x + 3) (x + 7) = 0$$

$$x = -3 , -7$$

$$\textcircled{9} \quad x ^ 2 + 5 x + 6 = 0$$

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

$$x = -2 , -3$$

$$\textcircled{10} \quad x ^ 2 + 6 x - 7 = 0$$

$$(x - 1) (x + 7) = 0$$

$$x = 1 , -7$$