

氏名 () 点数 _____

$$\begin{aligned}(1) \quad & 2x^2 - 10x + 12 \\ & = 2(x^2 - 5x + 6) \\ & = \underline{2(x-3)(x-2)}\end{aligned}$$

$$\begin{aligned}(2) \quad & ax^2 - ax - 2a \\ & = a(x^2 - x - 2) \\ & = \underline{a(x-2)(x+1)}\end{aligned}$$

$$\begin{aligned}(3) \quad & 3x^2 - 3xy - 6y^2 \\ & = 3(x^2 - xy - 2y^2) \\ & = \underline{3(x-2y)(x+y)}\end{aligned}$$

$$\begin{aligned}(4) \quad & 9x^2 - 81 \\ & = 9(x^2 - 9) \\ & = \underline{9(x+3)(x-3)}\end{aligned}$$

$$\begin{aligned}(5) \quad & 2x^3 - 8x^2 - 10x \\ & = 2x(x^2 - 4x - 5) \\ & = \underline{2x(x-5)(x+1)}\end{aligned}$$

$$\begin{aligned}(6) \quad & x^3 - 5x^2 + 4x \\ & = x(x^2 - 5x + 4) \\ & = \underline{x(x-1)(x-4)}\end{aligned}$$

$$\begin{aligned}(7) \quad & (x+y)^2 - (x+y) - 6 \\ & \rightarrow x+y=A \text{ とおく} \\ & = A^2 - A - 6 \\ & = (A-3)(A+2) \\ & = \underline{(x+y-3)(x+y+2)}\end{aligned}$$

$$\begin{aligned}(8) \quad & (x+y)^2 - 4(x+y) + 4 \\ & \rightarrow x+y=A \text{ とおく} \\ & = A^2 - 4A + 4 \\ & = (A-2)^2 \\ & = \underline{(x+y-2)^2}\end{aligned}$$

$$\begin{aligned}(9) \quad & (x-y)^2 - 9 \\ & \rightarrow x-y=A \text{ とおく} \\ & = A^2 - 9 \\ & = (A+3)(A-3) \\ & = \underline{(x-y+3)(x-y-3)}\end{aligned}$$

$$\begin{aligned}(10) \quad & (x+5)^2 - 3(x+5) - 10 \\ & \rightarrow x+5=A \text{ とおく} \\ & = A^2 - 3A - 10 \\ & = (A-5)(A+2) \\ & = (x+5-5)(x+5+2) \\ & = \underline{x(x+7)}\end{aligned}$$