

氏名 () 点数 _____

$$\begin{aligned}(1) & (x+3)(x+8) + (x+3)^2 \\ & = x^2 + (3+8)x + 3 \times 8 + x^2 + 2 \times x \times 3 + 3^2 \\ & = x^2 + 11x + 24 + x^2 + 6x + 9 \\ & = \underline{2x^2 + 17x + 33}\end{aligned}$$

$$\begin{aligned}(2) & (x-4)(x+6) - (x-4)^2 \\ & = x^2 + (-4+6)x + (-4) \times 6 - (x^2 - 2 \times x \times 4 + 4^2) \\ & = x^2 + 2x - 24 - (x^2 - 8x + 16) \\ & = x^2 + 2x - 24 - x^2 + 8x - 16 \\ & = \underline{10x - 40}\end{aligned}$$

$$\begin{aligned}(3) & (2x-3)(2x-8) + (x-5)(x+5) \\ & = (2x)^2 + (-3-8)2x + (-3) \times (-8) + x^2 - 5^2 \\ & = 4x^2 - 22x + 24 + x^2 - 25 \\ & = \underline{5x^2 - 22x - 1}\end{aligned}$$

$$\begin{aligned}(4) & (a-b)(a+2b) - (a-b)(a+b) \\ & = a^2 + (-b+2b)a + (-b) \times 2b - (a^2 - b^2) \\ & = a^2 + ab - 2b^2 - a^2 + b^2 \\ & = \underline{ab - b^2}\end{aligned}$$

$$\begin{aligned}(5) & (5x+y)(5x-2y) - (5x+3y)(5x-3y) \\ & = (5x)^2 + (y-2y)5x + y \times (-2y) - \{(5x)^2 - (3y)^2\} \\ & = 25x^2 - 5xy - 2y^2 - (25x^2 - 9y^2) \\ & = 25x^2 - 5xy - 2y^2 - 25x^2 + 9y^2 \\ & = \underline{-5xy + 7y^2}\end{aligned}$$