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$$\begin{aligned}A &= (x - 4)^2 - (x - 3)(x + 3) \\&= x^2 - 2 \times x \times 4 + 4^2 - [x^2 - 3^2] \\&= x^2 - 8x + 16 - [x^2 - 9] \\&= x^2 - 8x + 16 - x^2 + 9 \\&= -8x + 25\end{aligned}$$

$$\begin{aligned}B &= (2x - 5)^2 - (5x + 2)^2 \\&= 4x^2 - 2 \times 2x \times 5 + 5^2 - [(5x)^2 + 2 \times 5x \times 2 + 2^2] \\&= 4x^2 - 20x + 25 - [25x^2 + 20x + 4] \\&= 4x^2 - 20x + 25 - 25x^2 - 20x - 4 \\&= -21x^2 - 40x + 21\end{aligned}$$