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$$\begin{aligned}A &= (3x + 1)(x + 4) - (2x - 5)(x + 4) \\ &= (x + 4) [(3x + 1) - (2x - 5)] \\ &= (x + 4) (3x + 1 - 2x + 5) \\ &= (x + 4) (x + 6)\end{aligned}$$

$$\begin{aligned}B &= (7x - 3)^2 - x(7x - 3) \\ &= (7x - 3)(7x - 3) - x(7x - 3) \\ &= (7x - 3) [(7x - 3) - x] \\ &= (7x - 3)(6x - 3) \\ &= (7x - 3)(3 \times 2x - 3 \times 1) \\ &= 3(7x - 3)(2x - 1)\end{aligned}$$

$$\begin{aligned}C &= 2 - x - (2 - x)^2 \\ &= 1 \times (2 - x) - (2 - x)(2 - x) \\ &= (2 - x) [1 - (2 - x)] \\ &= (2 - x) [1 - 2 + x] \\ &= (2 - x)(x - 1)\end{aligned}$$