

$$\begin{aligned}
 & 4\sqrt{3}(2x-1) \cdot x^2 - 4\sqrt{3}(2x-1) \cdot x - 4\sqrt{3} \cdot (1-2x) = \\
 & = \underline{4\sqrt{3} \cdot (2x-1) x^2} - \underline{4\sqrt{3}(2x-1)x} - \overbrace{4\sqrt{3} \cdot (-1) \cdot (2x-1)} = \\
 & = \underline{4\sqrt{3} \cdot (2x-1) \cdot (x^2 - x + 1)} \leftarrow \text{P-ans decomposed in factors}
 \end{aligned}$$

$$\begin{aligned}
 & (x-2)^2 - (x-1) \cdot (x+3) - (x-3)(x+3) = \\
 & = x^2 - 4x + 4 - (x^2 + 3x - x - 3) - (x^2 - 9) = \\
 & = \cancel{x^2} - 4x + 4 - \cancel{x^2} - 2x + 3 - \cancel{x^2} + 9 = \\
 & = -x^2 - 6x + 16
 \end{aligned}$$

...