



# A More Complicated Polynomial Expression (FOIL Method)

(Video Notes)

[Video Link](#)

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Expand:

$$-4(2x - 5)(3x + 1) - (6x + 1)^2$$

$$-4(2x - 5)(3x + 1) - (6x + 1)(6x + 1)$$

$$-4(6x^2 + 2x - 15x - 5) - (36x^2 + 6x + 6x + 1)$$

$$-4(6x^2 - 13x - 5) - (36x^2 + 12x + 1)$$

$$\underline{-24x^2} + \underline{52x} + \underline{20} - \underline{36x^2} - \underline{12x} - \underline{1}$$

$$\boxed{-60x^2 + 40x + 19}$$