

Distributing $4(x - 2)(x + 3)$:

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$$4(x - 2)(x + 3) = 4(x^2$$

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$$4(x - 2)(x + 3) = 4(x^2 + 3x$$

Distributing $4(x - 2)(x + 3)$:

$$4(x - 2)(x + 3) = 4(x^2 + 3x - 2x$$

Distributing $4(x - 2)(x + 3)$:

$$4(x-2)(x+3) = 4(x^2 + 3x - 2x - 6)$$

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$$4(x - 2)(x + 3) = 4(x^2 + \underbrace{3x - 2x}_{x} - 6)$$

$$\begin{aligned} 4(x - 2)(x + 3) &= 4(x^2 + x - 6) \\ &= 4x^2 + 4x - 24 \end{aligned}$$