

## 4.1.5 - Adding & Subtracting Expressions I

### 4.1 - Algebra - Expressions

Leaving Certificate Mathematics

Higher Level & Ordinary Level



## Example 1

Q. Add the following:

$$2(2x + 3y - 5) - (x - 2y + 3)$$

## Example 1

**Q.** Add the following:

$$2(2x + 3y - 5) - (x - 2y + 3)$$

Answer:

## Example 1

**Q.** Add the following:

$$2(2x + 3y - 5) - (x - 2y + 3)$$

Answer:

$$2(2x + 3y - 5) - (x - 2y + 3)$$

## Example 1

**Q.** Add the following:

$$2(2x + 3y - 5) - (x - 2y + 3)$$

Answer:

$$2(2x + 3y - 5) - (x - 2y + 3) = 4x + 6y - 10 - x + 2y - 3$$

## Example 1

**Q.** Add the following:

$$2(2x + 3y - 5) - (x - 2y + 3)$$

Answer:

$$\begin{aligned}2(2x + 3y - 5) - (x - 2y + 3) &= 4x + 6y - 10 - x + 2y - 3 \\ &= 3x + 8y - 13\end{aligned}$$

Q. Add the following:

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

Q. Add the following:

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

Answer:



Q. Add the following:

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

Answer:

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

Q. Add the following:

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

Answer:

$$x^2 + 3x - 5 - 2(x^2 - 2x + 4) = x^2 + 3x - 5 - 2x^2 + 4x - 8$$

Q. Add the following:

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

Answer:

$$\begin{aligned}x^2 + 3x - 5 - 2(x^2 - 2x + 4) &= x^2 + 3x - 5 - 2x^2 + 4x - 8 \\ &= -x^2 + 7x - 13\end{aligned}$$