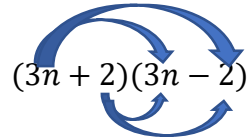


## Multiplying Polynomials #11 Notes

### Example 1: Product of a Sum and a Difference

$$(3n + 2)(3n - 2)$$


$$(3n + 2)(3n - 2)$$

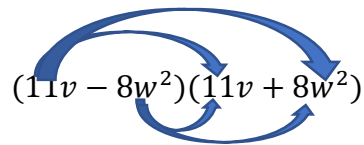
$$9n^2 - 6n + 6n - 4$$

$$9n^2 - 4$$

\*\*The  $+6n - 6n$  cancels out, so that term just disappears.

### Example 2: Product of a Sum and a Difference

$$(11v - 8w^2)(11v + 8w^2)$$


$$(11v - 8w^2)(11v + 8w^2)$$

$$121v^2 + 88vw^2 - 88vw^2 - 64w^4$$

$$121v^2 - 64w^4$$

\*\*The  $+88vw^2 - 88vw^2$  cancels out, so that term just disappears.

Video Link: <https://www.youtube.com/watch?v=9rPgEko98G0>