

Multiplying Binomials

 Guided Notes SE

MULTIPLYING BINOMIALS

Binomials can be multiplied by using distributive property, as shown in the example.

Example 1:

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

- Distribute $2x$ to each term in the second expression and similarly -3 :

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

- Multiply: $10x^2 + 8x - 15x - 12$
- Add the like terms:

$$= \mathbf{10x^2 - 7x - 12}$$

Sample Problem 1:

Multiply $(-2x+3)(3x+10)$

Sample Problem 2:

Multiply $(5p+3)(3p-7)$

Sample Problem 3:

Multiply $(-9n^2+8)(6n^2+7)$