Unit 2 Day 4 The Distributive Law

Yesterday we explored the concept of adding and subtracting polynomials by removing the brackets. Today, we will learn how to multiply a polynomial by a constant.

# Rule: If there is a constant directly outside a polynomial, multiply that constant by EVERY term one at a time and remove the brackets.

Whenever you apply the distributive law, the process you are performing is called **EXPANDING.**

**Examples:**

Expand each of the following using the distributive law.

a) 5(x2 + 3x – 10) b) 2(–3x + x2 – 4)

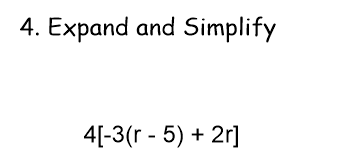
c) –3(–7x2 + 4x) d) –7(–x2 – 8x – 9)

We can also have more than one application of the distributive law in a question.

Expand **and** Simplify

a) 4(x2 – 5x) + 6(3x – 2x2 – 2) b) 5(3y – 8 – 2y2) – 4(–2y2 – 10)





Hmwk : Page 314-315, #’s 1-61 odds, 63, 64, 66