

MAT0028 ~ Lesson 27

Work the following examples as you listen to the recorded lecture.

Multiplying Polynomials**Remember:**

Multiply by adding exponents with the same base.

Example 1:

$$9t^6(-3t^5)$$

Example 2:

$$(-5.2x^4)(3x^3)$$

Example 3:

$$\left(-\frac{3}{4}y^7\right)\left(\frac{1}{7}y^4\right)$$

Example 4: $(x)(5x^4)(-6x^7)$

Example 5: $2x(6x + 3)$

Example 6: $-4b^2(3b^3 - 12b^2 - 6)$

Example 7: $(x + 2)(x + 9)$

Example 8: $(4x - 3)(3x - 5)$

Example 9: $(x + 5)(x^3 - 3x + 4)$

Example 10: $(x + 2)^3$

Example 11: $(x^2 + 5x - 7)(2x^2 - 7x - 9)$