

## MAT0028 ~ Lesson 27

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

### Multiplying Polynomials

<b>Remember:</b>
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Multiply by adding exponents with the same base.
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Example 1:  
 $9t^6(-3t^5)$

Example 2:  
 $(-5.2x^4)(3x^3)$

Example 3:  
 $(-\frac{3}{4}y^7)(\frac{1}{7}y^4)$

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