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| **Multiplying Polynomials (5.2)** | **Math 98** |

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| Review |  |

Example 1: Multiply and simplify

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Example 1 continued:

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Example 2: Sometimes it can be easier to multiply vertically.

1. 

FOIL it before it foils you.

Example 3: Multiply

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Question: Does ? Discuss this with your neighbors and figure it out.

It’s worth memorizing the square of a binomial (*perfect squares*)l:

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The picture can help.

Example 4:

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Explore the *difference of squares* to find the pattern:

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The *difference of squares* formula:

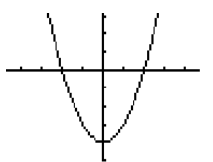
Example 5: Multiply

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Example 6: Multiply

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Connection with functions: The given graph shows . Do you see any connections between the symbolic representation and the graph?



Example 7: Suppose . Find the following:

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