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| **Special Cases: Squares and Cubes (5.6 & 5.7)** | **Math 098** |

Review: Multiply 

The formulas: Factoring a perfect-square trinomial

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To recognize a perfect-square trinomial if given 

* Are *a* and *c* perfect squares? If they are, of what are they squares? These are your *A* and *B*.
* Is the middle term of the form 

Factor

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| --- | --- |
|  |  |
|  |  |

Factor

|  |  |
| --- | --- |
|  |  |

The formula: Factoring a difference of two squares

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To factor a difference of two squares, write the product of the sum and difference of the quantities being squared. *The sum of squares cannot be factored*.

Factor

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| --- | --- |
|  |  |

Solve

|  |  |
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|  |  |

Review: Multiply 

The formulas: Factoring a sum or a difference of two cubes

* 
* 

Factor

|  |  |
| --- | --- |
|  |  |
|  |  |

Summary: Useful factoring facts

Factoring a perfect-square trinomial

*  or 

Factoring a difference of two squares

* 

Factoring a sum or a difference of two cubes

*  or 