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

Review: Multiply 

The formulas: Factoring a perfect-square trinomial

* 
* 

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

|  |  |
| --- | --- |
| 1.
 | 1.
 |
| 1.
 | 1.
 |

Factor

|  |  |
| --- | --- |
| 1.
 | 1.
 |

The formula: Factoring a difference of two squares

* 

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

|  |  |
| --- | --- |
| 1.
 | 1.
 |

Solve

|  |  |
| --- | --- |
| 1.
2.
 |  |

Review: Multiply 

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

* 
* 

Factor

|  |  |
| --- | --- |
| 1.
 |  |
| 1.
 |  |
| 1.
 |  |
| 1.
 |  |

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 