|  |  |
| --- | --- |
| **Factoring Trinomials:  (5.5)** | **Math 098** |

Let’s investigate patterns from factoring that we have learned to date:

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

In review:

 



 and multiply 

 and multiply 

Go back to the previous two questions and consider how many possibilities must be considered if we guess and check.

For the following “method” to work, we MUST ALWAYS factor out the \_\_\_\_\_\_\_\_\_\_\_ first.

 Factor

1. 

Hint: When you can, start with the most “middle” values for *a*).
2. 

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

Important: If the leading coefficient is 1 () then you do NOT need a table.

 Solve 

 Given , find *a* such that .

(You try) Factor 

Find the *x*-intercepts of 