Algebra 1 Unit 9

Day 6: Factoring – Special Cases

When factoring trinomials, there are a few different types of special cases. To factor these quadratics, we will follow the same steps as before.

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| **Steps** | **Example** |
| 1) Check for a GCF; if there is a GCF, factor it out of all three terms  2) Identify a,b, and c  3) Draw a large X  4) Multiply 🡪 this number goes on the top of your X  5) Put on the bottom of your X  6) List out the factors of the number on top of the X  7) Find two factors that multiply the top number and add to the bottom number; place these numbers on the sides of the X  8) Divide the side numbers by  9) Reduce your fractions (if it is a number over 1, leave it as a fraction over 1)  10) For each fraction, the denominator will become a coefficient of x and the numerator will become the constant |  |

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