Math 10 week 6

This week in math ten we started working with trinomials and trying to solve them. Trinomials are really cool because your calculator cant help you solve them and there are many patterns/short cuts you can you to solve them.

First short cut you can use is factoring by splitting

The second short cut you can use is when it’s a perfect square

(x+4)(x+4)

Frist youll add the fours together

(x+4)(x+4)

X +8x + …

Then youll multipluy them

X+8x+16

It’s a simpler and faster way of finding the answer when you know it’s a perfect square

\*\*disclaimer THIS ONLY WORKS FOR PERFECT SQUARES\*\*

 12x+6y+10

Frist you will find the prime factorizations for all

the numbers so it looks like this…

 2 2 3 x

2

 2 3 y

 2 5

Find the common number(s) or variables

Its 2

Then you’ll divide all numbers by 2 and In the end your

 simplified answer will look like this…

2(6x+3y+5)

 Another pro tip is the 123s of factoring

1. = any thing in common (GCF)
2. = two terms difference of a square
3. = three terms means you factor