CLASS AGENDA

- Factoring No Coefficient
- Practice
- Factoring GCF
- Practice
- Solving
- Closure

FACTORING

$\odot ax^2 + bx + c$

- a: leading coefficient
- b: sum of the factors
- c: product of the factors

• Example: $x^2 + 2x + 1$

What factors of 1 add up to 2?

FACTORING

• When "a" is positive

- If "c" is positive, then the factors have to be the same sign (positive or negative)
 If c is positive, look to the sign of "b"
- If "c" is negative, then the factors have to be opposite signs (one positive and one negative)



- 1. $x^2 + 5x + 4$
- 2. $x^2 + 4x 5$

3. $x^2 - 3x + 2$



Complete problems 1-15 on the worksheet

GREATEST COMMON FACTOR

• When "a" is a number other than 1:

- Look to factor it out
- If so, then factor the rest as normal
- If not, try to factor completely
- Example: $2x^2 6x + 4$



• Complete problems 16-30 on the worksheet



 To solve a quadratic equation means to find the zeroes.

• Steps to solving:

- 1. Set the equation equal to zero
- 2. Factor completely
- 3. Set each factor equal to zero
- 4. Solve for each factor algebraically



• Solve each of the equations on the worksheet

CLOSURE