

Objective

SWBAT multiply and factor binomials and trinomials

Lesson 2.6

$$6. x^2 + 5x + 3x + 15 \\ (x+5)(x+3)$$

$$10. x^2 + 10x + 9 \\ (x+1)(x+9)$$

$$\begin{array}{r} 1 \quad 9 \\ \times \quad 9 \\ \hline 10 \end{array}$$

Vertex:

$$(x+3)^2$$

Standard:

$$x^2 + 3x + 9$$

Factored:

$$(x+3)(x+3)$$

Lesson 2.7

- * Expression with $ax^2 + bx + c$ is a trinomial
- * Whichever number has larger absolute value while factoring determines if "c" is positive or negative
- * difference of squares - $(x+a)(x-a)$
- * If there are same sign, "c" will be positive, opposite, negative