FACTORING PART TWO

DIRECTED LEARNING ACTIVITY

FACTORING TRINOMIALS (a = 1.)

OBJECTIVE:

To understand how to factor trinomials in the form $ax^2 + bx + c$, when a = 1.

VOCABULARY:

- Distributive Property
- Factor
- Factors
- Trinomial
- Greatest Common Factor.

FACTORING TRINOMIALS (a = 1.)

Watch this video on how to factor trinomials when a = 1. AC Method when a = 1.

PRACTICE

Factor Completely.

- 1. $x^2 + x 6$
- 2. $x^2 13x + 36$
- 3. $3x^3 + 27x^2 + 24x$
- 4. $4x^2 + 12x 40$

SPECIAL FACTORING TECHNIQUES

OBJECTIVE:

• To understand how to factor binomials in the form $x^2 - y^2$, $x^3 - y^3$, and $x^3 + y^3$.

VOCABULARY:

- Difference of Two Squares
- Difference of Two Cubes,
- Sum of Two Cubes.

ACTIVITY

- 1) Multiply. (x y)(x + y) =
- 2) Multiply. $(x y)(x^2 + xy + y^2) =$

3) Multiply. $(x + y)(x^2 - xy + y^2) =$

DIFFERENCE OF TWO SQUARES

Watch this video on how to factor binomials using difference of squares. Difference of squares.

PRACTICE

Factor Completely.

- *1.* $36x^2 49$
- 2. $6x^2 24$
- 3. $100x^2 + 144$

SUM AND DIFFERENCE OF TWO CUBES

Watch this video on how to factor binomials using cubes. Factoring perfect cubes.

PRACTICE

Factor Completely.

- 1. $x^3 8$
- *2.* $x^3 + 216$
- 3. $2x^3 54$