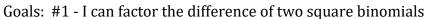
NOTES: Section 10.7 – Factoring Special Products



#2 - I can solve quadratic equations by factoring







#1 - I can factor the unference of two square billomia

Homework: Section 10.7 Worksheet

Warm Up:

1. Factor the trinomial.

a.
$$x^2 - x - 20$$

b.
$$8y^2 - 26y + 15$$

2. Solve the equation by factoring.

a.
$$x^2 - 17x + 30 = 0$$

b.
$$6x^2 + 19x - 10 = -20$$

Exploration #1: Multiply the binomials.

1.
$$(x-3)(x+3)$$

2.
$$(4x - 5)(4x + 5)$$

Name:	Hour:	Date:

Similar to our special product patters, there are special _____ patterns.

$$a^2 - b^2 =$$

Example:

Example #1: Factor the expression.

1.
$$x^2 - 4$$

2.
$$9q^2 - 64$$

You practice: Factor the expression.

1.
$$m^2 - 9$$

2.
$$4p^2 - 25$$

Example #2: Factor the expression.

1.
$$50 - 98x^2$$

2.
$$2x^2 - 32$$

You practice: Factor the expression.

1.
$$18x^2 - 128$$

2.
$$1000 - 10m^2$$

Example #3: Solve the equation by factoring.

1.
$$x^2 - 36 = 0$$

$$2. \ 2x^2 - 32 = 0$$

You practice: Solve the equation by factoring.

1.
$$25x^2 - 4 = 0$$

$$2. \ 3x^2 - 27 = 0$$