## Welcome!

- All cell phones in holder.
- Complete warm-up at boards.
- Quick Check after warm-up.

## Factoring Binomials with Difference of Perfect Square

## Factor x<sup>2</sup> - 49

General Steps	Examples
Set up two empty sets of parenthesis below the polynomial.	x² - 49
2. The first numbers must multiply together to equal the first term, ax².	(X+7)(X-7)
3. The second numbers must multiply together to equal the last term <b>c</b> .	
4. Multiply the outside terms and then the inside terms. When those terms are added together, they should equal the middle term, <b>b</b> .	
5. Check your answer by multiplying the two binomials together.	

## Practice:

1. 
$$25x^2 - 36$$

2. 
$$6x^2-54$$

3. 
$$4x^2 - 100$$

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

**5**. 
$$256x^2 - v^2$$

$$5(x^{4}-9y^{2})$$