Name: _____ Period: _____ Due Date: <u>January 14, 2018</u>

(MATH 5)

Factoring Review Homework #1

Directions: Factor each of the following polynomials <u>completely</u> or write "Not Factorable" (if needed).

1. $12x^2+14x$

2. $9p^2-6p-15$

3. $2n^2+3n-9$

4. $3k^2-8k+4$

5. $9y^2+66y+21$

6. $5x^2-18x+9$

7. $8s^2-30s-50$

8. $-6a^2-25a-25$

9. $6b^2+5b-6$

10. $16z^2+60z-100$

11. $4x^2-35x+49$

13. $9r^2-81$

12. $15t^2-27t-6$

14. $8w^2-32$

Directions: Solve each quadratic equation by factoring.

1. $x^2-9x+14=0$

3. $3x^2-14x+8=0$

2. $2x^2-5x=0$

4. $2x^2-12x-2=8$