NC Math 1B Unit 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Date:

**Homework Lesson 3.5: Factoring by GCF, Grouping, and Difference of Squares**

***Completely Factor Each Polynomial***

1. $2n^{7}+4n^{5}$ 2. $x^{2}-100$

3. $3u^{2}v^{6}-27u^{3}v^{3}-6uv^{4}$ 4. $m^{2}+9$

5. $144-x^{2}$ 6. $8m^{3}+2m^{2}-40m-10$

7. $45r^{2}-125$ 8. $25n^{2}-16$

9. $-121+a^{2}$ 10. $6x^{2}-36$

11. $81m^{2}-1$ 12. $8n^{3}-4n^{2}-6n+3$

13. $8m^{2}-25$ 14. $144a^{2}-169p^{2}$