**LT #3: Factoring**
Factor the following completely. (2 pts each)

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. $4x^{2}-25$ 2. $y^{3}-8$ 3. $2x^{2}+11x+12$

4. $x^{3}-2x^{2}+5x-10$ 5. $2b^{4}+9b^{3}+10b^{2}$

6. $6x^{2}+11xy+4y^{2}$ 7. $2x^{3}-32x$

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**LT #4: Zero Product Property**

8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. Solve by **factoring and the zero product property. (3 points)**

$2x^{2}-11x+5=0$

9. Solve by **factoring and the zero product property. (3 points)**

 $4x^{2}-9=0$

10. Write a quadratic equation in *standard from* given the following roots: 2, -5
 **(2 points)**

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