Algebra 1 – Homework – Factoring Difference of Squares   Name_____

YOU MUST SHOW ALL YOUR WORK TO RECEIVE CREDIT!!

Factor each polynomial.

1. $x^2 - 100$ 1._____

2. $25x^2 - 121$ 2._____

3. $4x^2 + 49$ 3._____

4. $8x^2 - 32$ 4._____

5. $5x^2 - 45$ 5._____

6.   Explain how you would factor #5.

For questions 7 – 10, identify the method you would use to factor the polynomial.

7. $64x^2 - 121$ 8. $5x^3 - 50x^2$

9. $12x^2 - 75$ 10. $81x^2 - 4$