**Advanced Algebra Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**6.3 Worksheet Date \_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_**

**Divide using synthetic division.**

1. 2.

3. 4.

5. 6.

**Determine if each binomial is a factor of Justify your work.**

7. 8. 9.

**Use synthetic division and the given factor to completely factor each polynomial function.**

10. 11.

**Use the Remainder Theorem to determine if the given “a” value is a solution.**

12. 13.

**Use long division to divide the polynomials.**

14.  15. 

16.  17. ****

18. ****