**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**7.3 Factoring with Synthetic Division**

**1.** Given that 3 is a zero of the polynomial , factor completely

2. Given that 2 is a zero of the polynomial , factor completely

List all possible rational zeros given by the Rational Zeros Theorem (but don’t check to see which actually are zeros)

**3.**  4**.** 

Factor Completely

**5.** 

**6.** 

**7.** 

Find all real zeros of the polynomial. Use the quadratic formula if necessary

**8.** 

**9.** 