**LT #4: Polynomial Division**

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

b. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2.

See answer at left

3.

YES or NO

/11

1.

1. Use synthetic division to find (3 points)  
   (Be careful!)
2. Is x+1 a factor? Explain your reasoning. (2 points)

2. Divide using long division . Write your answer as a quotient statement. (4 points)

3. Determine if is a factor of using either   
 substitution or synthetic division. You must show work! (2 pts)