Name:		
PC:		

Date: _____ Ms. Loughran

Do Now:

1. Determine all the factors of $x^3 - 4x^2 - 11x + 30$ given that x - 2 is a factor.

- 2. Find a polynomial function of degree 4 that has integer coefficients and zeros $1,-1, 2, \frac{1}{2}$.
- 3. Use the remainder theorem to determine if x + 2 is a factor of $p(x) = x^5 + 2x^4 3x^3 6x^2 6x 12$. Justify your answer.

4. If $p(x) = 2x^3 + cx^2 - 5x - 6$ and x + 2 is a factor of p(x), find the value of c.