Unit 6.2 – Remainder & Factor Theorem I Can Sheet

I Can...

- Explain the differences between direct & synthetic substitution
- Explain the remainder theorem & how it is helpful (and the method of solving)
- In my own words, explain the factor theorem
- Use synthetic division to determine if an equation (x-r) is a factor, and then calculate the remaining factors.

Items in bold should be turned in to me or placed in your binder.

_____video notes
_____book assignment
_____extra video
_____extra ws
_____pre-mc
____mastery check

Pre-mc:

Use synthetic substitution to find f(-3) and f(4) for each function.

- 1. What is the difference between direct & synthetic substitution?
- 2. $4x^4 4x^3 + 3x^2 2x 3$

Given the polynomial and one of its factors, find the remaining factors.

3. $x^4 + x^3 - 11x^2 - 9x + 18; x - 1$

4. $x^3 - 4x^2 - 11x + 30; x + 3$