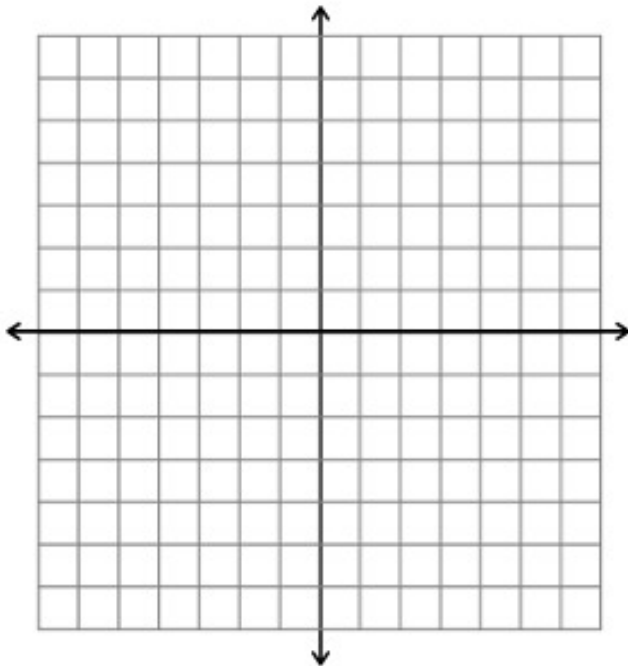# Quiz 3C, Precalculus-04
Dr. Graham-Squire, Fall 2013

Name: _____

1. (3 points) Completely factor the polynomial $P(x) = x^3 - 4x^2 + 5x$ into linear terms.

2. (4 points) Factor the polynomial $f(x) = x^3 + 5x^2 - 4x - 20$ and use the factored form to sketch the graph.

3. (3 points) Do polynomial long division (or synthetic division) to find the quotient and re-mainder for the expression

$$\frac{2x^3 - 4x^2 - 10x + 7}{x^2 - 3x + 2}$$