

231 Quiz 8.

Name: _____

April 14, 2011

You may use your hand-written Notebooks but no other materials and no technology at all.

1. Choose ONE of the following to answer. CIRCLE THE ONE YOU ARE SOLVING AND CROSS OUT THE OTHER.

a) Factor the polynomial $f(x) = x^3 - 3x^2 + 4$ as much as possible.

b) Use polynomial long division to write $\frac{x^3 - 3x^2 + 4}{x - 3}$ as the sum of a polynomial and a proper rational function.

2. Sketch the graph of $f(x) = -3x^{\frac{4}{5}}$.