

Math 163 — Quiz 04

Monday October 15th 2012

**Instructions** Remember to show all your work so you can get partial credit. This quiz is to be done without a calculator.

1. Expand using partial fractions

$$\frac{1}{x^2 - 1}. \tag{1}$$

2. Expand using partial fractions

$$\frac{x^2 + x}{(x - 1)(x^2 + 1)} \tag{2}$$