

Last Name: _____

First Name: _____

Student ID: _____

Quiz 2

Question 1. (4 marks) Rationalize the numerator:

$$\frac{1 + \sqrt{x+2}}{\sqrt{x+2}}$$

Question 2. (6 marks) Simplify the following expression. Express your answer as a single rational expression with positive exponents only:

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