

Last Name: _____

First Name: _____

Student ID: _____

Quiz 2 (A)

Question 1. (4 marks) Simplify the following expression:

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

Question 2. (4 marks) Rationalize the numerator:

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

Question 3. (2 marks) Factor the following expression:

$$(x - 1)^3 - 8$$