Name: \_\_\_\_\_

Math 222 - Quiz 3 Section: \_\_\_\_\_ Problem 1. Evaluate the indefinite integral  $\int \frac{1}{(1+x^2)(1+x)} dx$ .

**Problem 2.** Evaluate the definite integral  $\int_0^1 \sqrt{2-t^2} dt$ . It may help to remember that  $\sin \frac{\pi}{4} = \frac{1}{\sqrt{2}}$ .