## Math 10860, Honors Calculus 2

Quiz7

Thursday March 26

- 1. Use the substitution  $u = \sqrt{1 + \sqrt{x}}$  to find  $\int \frac{dx}{\sqrt{1 + \sqrt{x}}}.$
- 2. Using an appropriate substitution, reduce

$$\int \frac{x^2}{\sqrt{x^2 + 1}} \, dx$$

to an integral that only involves trigonometric functions.