

**Quiz 5****Calculus 1****7/26/04**

Each problem is worth 5 points. For full credit provide proper justification for your answer.

1. Find the indefinite integral  $\int \left( x + \frac{1}{\sqrt{x}} \right) dx$ .

2. Evaluate  $\int_1^2 \frac{1+y^2}{y} dy$  exactly.