

**MATH 166**  
**SUMMER 2012**  
**QUIZ 7**

1. Evaluate the following integrals.

a) (5 pt)  $\int \tan^2(x) \sec(x) dx.$

b) (5 pt)  $\int \frac{\cos^2(x)}{\sin(x)} dx.$

c) (5 pt)  $\int \frac{\sqrt{9-4x^2}}{x} dx.$

d) (5 pt)  $\int \sqrt{4x - x^2} dx.$