

**Assignment #6****Name** \_\_\_\_\_**Due 23 February 2015**

1. Evaluate the following integrals:

(a)  $\int_0^{\pi/4} \tan^5(x) \sec^3(x) dx$

(b)  $\int \frac{1}{x^2 \sqrt{4-x^2}} dx$

(c)  $\int \sqrt{16 - x^2} dx$

(d)  $\int_0^3 \frac{1}{(x^2 + 9)^{5/2}} dx$