

Math 2

Homework 6

Due: March 1 , 2010

Please show all work.

1. Find $\int \sin(\ln(x))dx$.

2. Find $\int \arctan(x)dx$.

3. Find $\int \tan^5(x) \sec^2(x)dx$.

4. Find $\int \frac{\cos^5(x)}{\sqrt{\sin(x)}}dx$.

5. Find $\int_0^1 \sqrt{x^2 + 1}dx$.

6 Find $\int_0^{\frac{1}{2}} \frac{x^2}{\sqrt{9 - 25x^2}}dx$.