Name:

Math 116 Practice Exam 1 Answers

1) a) $e^{\tan(x)} \sec^2(x)$

b) $\dfrac{\sin(x)}{1 + \cos^2(x)}$

c) $\dfrac{x^4}{\ln(2)}(4 + 5\ln(x^4))$

2) 9.71325×10^{-10} mcg

3) a) $\ln|1 + \tan(x)| + C$

b) $-\dfrac{e^{-7x}}{2401}(343x^3 + 147x^2 + 42x + 6) + C$

4) a) $-1/7$

b) $-2/\pi$

c) e^4

5) a) $1/32$

b) $\frac{1}{12}(-14 - \pi + 130\arctan(8))$