Math 4B "Quiz"
June 21, 2016

Name: _____   Score: NA

Circle which section you attend: 8:30am   9:30am   10:30am   11:30am

Directions: Open book, open note, open neighbor. No phones or calculators.

Disclaimer: The content and level of difficulty of this quiz are not guaranteed to be in correlation with the midterm nor final examinations in any form.

___

1. Evaluate the following derivatives:

   (a) $\dfrac{d}{dx} x^{100}$

   (b) $\dfrac{d}{dx} (xe^x)$

   (c) $\left(\sin^{-1}(2x)\right)'$

2. Evaluate the following integrals:

   (a) $\displaystyle\int \frac{1}{1+x^2} dx$

   (b) $\displaystyle\int (x^{10} - \frac{1}{x^2} + e^x - \cos x) dx$

(c) $\int \dfrac{1}{x} dx$

(d) $\int \tan x \, dx$

(e) $\int x \sin x \, dx$

(f) $\int \dfrac{1}{x - x^2} dx$