Name:
Quiz 1
Math 152 Calculus II - Crawford
Books, notes (in any form), and calculators are not allowed. Show all your work. Good Luck! 1. $(3 \mathrm{pts})$ Solve the following equation for $x$.
$3 e^{2 x-4}=8$
2. ( 7 pts ) Differentiate the following. [Do not simplify.]
(a). $f(x)=e^{-2 x} \cos (4 x)$
(b). $y=3^{x^{3}}$
3. (4 pts) Evaluate the following integral.

$$
\int \frac{e^{5 x}}{\left(1+e^{5 x}\right)^{2}} d x
$$

4. (1 pts) True or False: If $y=(\tan x)^{x}$, then $y^{\prime}=x(\tan x)^{x-1}$
