

Name:

Section: 11 12 13

1. Find the derivative of  $f(x) = x^3 \sec(7x) + (9x - 2 \tan x)^{2/3}$

2. Compute the integral  $\int \frac{\sin x}{(1 + 7 \cos x)^5} dx$

3. Compute the limit  $\lim_{x \rightarrow \infty} \frac{\sqrt[3]{x^2 - 1}}{x}$

4. Indicate whether the following functions are one-to-one or not. For the ones that are one-to-one, draw their inverse on the same plot.

