Name: Section: 1 2

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

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

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

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.

