1. Calculus 1 review: Find the derivative of $f(x) = x^2 \sin(3x) + \sqrt{7x - 2}$. Simplify the answer.

2. More Calculus 1 review: Find the integral $\int \frac{\cos x}{(1+7 \sin x)^3} \, dx$. 
3. Calculus 2 begins: Inverse functions. Which of the following graphs show a function that is one-to-one? If one-to-one, draw the inverse function on the same plot.