CSCE 330 Fall 2011 QUIZ 9 Assigned Tuesday, 11-11-08

1. Find the error in the following function:

sum [] = 0
sum(x:xs) = x + sum x
Answer: x should be xs

2. Consider the following function:

product [] = 1
product (x:xs) = x * product xs
Show that product [1,2,3] = 6.
Answer: product [1,2,3] = 1 * product [2,3] = 1 * 2 * product [3] = 1 *
2 * 3 * product [] = 1 * 2 * 3 * 1 = (several ways to finish).