Name:_____   Score:_____

Instructions: You must show supporting work to receive full and partial credits. No text book, notes, formula sheets allowed.

1(3pts each) Find the indefinite integrals of

(a) $\int \dfrac{x}{\sqrt{x}+1}\, dx.$

(b) $\int \dfrac{1}{x \ln x}\, dx.$

3(4pts) Find the definite integral of $\displaystyle\int_0^{\pi/4} \sec^2 x \tan x\, dx$