

To receive credit you MUST SHOW ALL YOUR WORK.

1. Evaluate (3 pts each):

(a) $\int_{-2}^2 |x-1| dx$

(b) $\int_0^{\pi/4} \tan x \sec^2 x dx$

(c) $\int_0^{\sqrt{3}} \frac{x}{\sqrt{1+x^2}} dx$

(d) Area between $y = \frac{1}{3x+1}$ and the x -axis, when $x \in [0, 1]$