Quiz 1

MAC-2312

Spring 2019

Name: $_$

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 $x \in [0,1]$