Time: 10min

QUIZ 3

1. Explain why the following statement is false.

$$\int_0^{\pi} (1 + \sin x)^2 \, dx = 0.$$

2. The average value of a function f(x) equals 6 for $0 \le x \le 1$, and equals 3 for $1 \le x \le 3$. What is the average value of f(x) for $0 \le x \le 3$.

Each problem is worth 5 pts.