Quiz 7

Student ID Number: Name _____

Math 140B, 5PM

Please justify all your answers March 7, 2019

Please also write your full name on the back

1. Prove that
$$\frac{1}{2} \leq \int_0^1 \frac{2x}{\sqrt{x^{2019} + 2x + 1}}\, dx \leq 1.$$

2. True or False? Explain. If f^2 is bounded and Riemann integrable on $[a, b]$, then f is Riemann integrable on $[a, b]$.