

Math 1450, Honor Calculus Practice6, Fall 2016.

September 28, 2016

PSID: _____ Name: _____

1. Calculate the limit $\lim_{x \rightarrow 0} \frac{e^x - 1}{10 \ln(1 + x)}$.

2. Calculate the limit $\lim_{x \rightarrow 0} \frac{4x - \sin(\pi x)}{2x^2 - 1}$.

3. Calculate the limit $\lim_{x \rightarrow \infty} \frac{\ln(x^7)}{x}$.

4. Calculate the limit $\lim_{x \rightarrow 1} x^{\left(\frac{8}{x-1}\right)}$.

5. Calculate the limit $\lim_{x \rightarrow 0} \left(\frac{8}{x} - 8 \cot(x) \right)$.

6. Calculate the limit $\lim_{x \rightarrow \infty} (x^6 + 1)^{\frac{1}{\ln(x)}}$.