

NAME:

MATH 133 - Michigan State University
September 26th, 2017.

Quiz 4

Clear your desk of everything except pens, pencils and erasers. **Show all your work.**
If you have a question raise your hand and I will come to you.

1. [2.5 points] Find the limit:

$$\lim_{x \rightarrow \infty} \frac{\ln x}{\sqrt{x}}$$

2. [2.5 points] Find the limit:

$$\lim_{x \rightarrow 0} \frac{x3^x}{3^x - 1}$$

3. [5 points] Find the limit:

$$\lim_{x \rightarrow 0^+} x(\ln(5x))^2.$$