

NAME:

MATH 133 - Michigan State University
October 3rd, 2017.

Quiz 5

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. [3.5 points] Find the integral:

$$\int x \ln(3x) dx$$

2. [3.5 points] Find the integral below. Recall that $\frac{d}{dx}(\arctan(x)) = \frac{1}{1+x^2}$.

$$\int \arctan(2x) dx$$

3. [3 points] Find the integral:

$$\int \frac{1}{x^2 \sqrt{x^2 - 25}} dx$$