MA 109: October 31
Logarithms: Evaluating Logarithms and Natural Log
Start of Class
Instructor Information
Name:
Email:

Office Hours:

Warm-up Questions

## Notes

The inverse is the thing that cancels.
If $f(x)=x+3$, what is $f^{-1}(x)$ ?

If $f(x)=3 x$, what is $f^{-1}(x)$ ?

If $f(x)=x^{3}$, what is $f^{-1}(x)$ ?

If $f(x)=3^{x}$, what is $f^{-1}(x)$ ?

If $f(x)=\log _{3}(x)$, what is $f^{-1}(x)$ ?

Example: What is $\log _{4}\left(4^{18}\right)$ ?

Example: What is $3^{\log _{3}(25)}$ ?

Example: What is $\log _{6}\left(36^{5}\right)$ ?

Example: What is $e^{\ln (17)}$ ?

## End of Class

Write a summary of what you learned today:

What questions do you have about the material from today?

What do you need to do between now and the next class meeting?

