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
$$f(x) = 3x$$
, 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 $\log_4(4^{18})$?

Example: What is $3^{\log_3(25)}$?

Example: What is $\log_6(36^5)$?

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?