

Math 1A: Sections 308-309

Worksheet 2: September 2

You should work on the following problems in groups of 4-5 students. It's ok if you don't finish all of them by the time we stop, but make sure everyone in your group knows **how** to solve each of the problems, and not just the solutions. When you write them down, or on the board, take turns doing the writing.

1. (Actual Midterm Question!)

Find a formula for the inverse of the function $y = e^{\sqrt{x}}$.

What are the domain and range of the inverse?

Can you sketch a (rough) graph?

2. Find the exact value of each expression:

A. $\sin^{-1}(1/2)$

B. $\tan^{-1}(1)$

C. $\tan(\sec^{-1}(4))$.