

MATH 220: CALCULUS I
WORKSHEET 5
JANUARY 29, 2013

1. For each of the following conditions, give two functions that satisfy them—a one-to-one function and a function that is not one-to-one. If no such function exists, state why.

(a) $f(1) = 2$

(b) f is an even function

(c) f is an odd function

2. Find the inverse function for $f(x) = \frac{e^x}{2 + 3e^x}$ (**original had typo with e^{2x} in numerator**)

3. What is the domain of $f(x) = \ln(e^x - 2) - 1$.
What is the domain of $f^{-1}(x)$?