

Math 1A Quiz 8
April 4th, 2008

Name _____ SID _____

1. a) Let f and g be two functions, and let a be a real number. What two conditions must be satisfied for a to be in the domain of $f \circ g$?

b) What is the domain of $f(x) = \cosh^{-1} \left(\frac{4}{\pi} \sin^{-1}(x) \right)$?

2. Show that $\sqrt{1+x} < 1 + \frac{1}{2}x$ if $x > 0$.