QTips: Tips for Quiz 2 10am

1) You’ll need trig substitutions for $\sqrt{x^2 - 1}$ and $\sqrt{x^2 + 1}$. You won’t have any integration by parts, and you won’t need recursions. Since your trig sub involves sec and tan, you’ll need to know derivatives and integrals of tan, sec and relations like $\sec^2 x = \tan^2 x + 1$. You won’t need to know sinh or cosh – for now.

2) This quiz tests whether you’ve learned trig substitutions. If you don’t use a trig sub, you don’t get any credit.

3) You’ll need to simplify answers in a sensible way; for example, $\cos (\sin^{-1} x)$ is not ok; you need to write this as $\sqrt{1 - x^2}$. 