MAT 514 - Summer II 2020
July 21, 2020

Quiz 4

Problem 1 Use the relation

$$\sin(z) = \frac{e^{iz} - e^{-iz}}{2i}$$

to show that $\sin(z)$ is an antiderivative of $\cos(z)$.

Problem 2 Compute the derivative of

$$\cosh(z^2)$$

by using properties of derivatives and complex exponentials.