

Problem of the week #1

Due September 6th.

Problem. Show the following are inverse functions:

$$S(t) = \int_0^t \frac{d\tau}{\cosh \tau}, \quad T(s) = \int_0^s \frac{d\sigma}{\cos \sigma}.$$

Note hyperbolic cosine is given by $\cosh \tau = (e^\tau + e^{-\tau})/2$.

- Partial credit may be given for partial answers.
- Each POW will be due the following week at 1pm.
- Submit to bthorner@unomaha.edu or DSC 203.