

Homework Assignment for Week 13

Assigned May 18, 2011.

1. Section 6.7: Problems: 5, 7, 8, 11, 12, 17(a), 18.

2. Show that

$$\frac{d \csc^{-1} y}{dy} = \frac{-1}{|y| \sqrt{y^2 - 1}}, \quad |y| > 1$$

Explain why the negative sign is chosen. You probably need to start from the ‘restricted’ domain of \csc to see this.

3. Section 6.9: Problems: 1, 9, 13, 21, 23.