

Brief answer to selected problems in Homework 16

1. Section 8.4

Problem 32: $\int \frac{\theta^4 - 4\theta^3 + 2\theta^2 - 3\theta + 1}{(\theta^2 + 1)^3} d\theta = \int \frac{1}{\theta^2 + 1} - \frac{4\theta}{(\theta^2 + 1)^2} + \frac{\theta}{(\theta^2 + 1)^3} d\theta$