

Math 4213 - Complex Analysis

Quiz #17 - 2012.03.14

Name: _____

1. Define the simple closed contour which can be used to compute integrals of the form:

$$\text{P.V.} \int_{-\infty}^{\infty} \frac{P(x)}{Q(x)} \cos(x) dx, \quad \text{P.V.} \int_{-\infty}^{\infty} \frac{P(x)}{Q(x)} \sin(x) dx,$$

where the degree of the polynomial Q is at least one greater than that of P .