Sample Final

Wednesday, July 18, 2018

7:47 AM

Compute the following integrals

1) $\int_{-\infty}^{\infty} \frac{dx}{x^4+1}$ 2) $\int_{-\infty}^{\infty} \frac{\cos x}{x^2+9} dx$

3) $\int_{-\infty}^{\infty} \frac{\sin x}{x(x^2-2x+2)} dx = 4) \int_{0}^{2\pi} \frac{d\theta}{1+\frac{1}{2}\sin\theta} d\theta$