

Calculus 1B Quiz 2

Name:

GSI: Paul Baginski

Student ID:

1. Does:

$$\int_4^5 \frac{x dx}{\sqrt{x^2 - 16}}$$

converge? If so, evaluate.

2. Does:

$$\int_0^{\infty} x^{1+\sin^2(x)} dx$$

converge? If so, evaluate.

(turn over)

3. Does

$$\int_1^{\infty} \frac{e^{\sin(x)} \arctan(x)}{x^2} dx$$

converge?