

Quiz 7A

Name:

UAlbany Email:

Closed book/notes. No calculators allowed.

Consider the integral $\int_2^5 \frac{1}{x-2} dx$ for all questions below.

1. (2 Points) (Fill in the blank) The integral is improper due to a vertical asymptote at _____.
2. (4 Points) What is the behavior of the integral? Circle **ONE** choice.
 - (a) It converges to a finite value.
 - (b) It diverges to infinity.
 - (c) It oscillates between positive and negative values.
 - (d) It approaches zero.
3. (4 Points) Evaluate the integral. Show your steps and reasoning.