

Present neatly on separate paper. Justify for full credit. No Calculators.

Name \_\_\_\_\_ Score \_\_\_\_\_ A (10 minutes)

- 1) Evaluate or explain why it does not exist.

$$\int_0^4 \frac{x}{\sqrt{1+2x}} dx$$

- 2) In a few grammatically correct sentences, describe the Net Change Theorem. Include examples and a definition.

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Name \_\_\_\_\_ Score \_\_\_\_\_ F (10 minutes)

1) Evaluate or explain why it does not exist.

$$\int_0^{T/2} \sin(2\pi t/T - \alpha) dt$$

2) In a few grammatically correct sentences, explain the Fundamental Theorem of Calculus.