

Name:

Quiz 2
ID #:

Section: 8

Serial #:

1. Evaluate the integral $A = \int_{-1}^0 (x + 2)(x + 1)^{19} dx$.

2. Find the volume of the solid obtained by revolving the region bounded by the curves $g(y) = \frac{2}{\pi} \sin^{-1} y$, $y = 0$, $0 \leq x \leq 1$ about the y -axis.

Quiz 2

Name:

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Section: 18 Serial #:

1. A particle moves along a line so that its velocity at time t is $v(t) = t^2 - t - 2$ (measured in meters per second). Find the distance travelled by the particle during the time period $1 \leq t \leq 3$.

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2. Compute the integral $I = \int \frac{\sin(2x)}{1+\sin^2 x} \ln(1 + \sin^2 x) dx$.