

Calculus Quiz

Your Name:

1. Evaluate the Riemann sum for $f(x) = 100 - x^3$ on the interval $[1,4]$, with six subintervals, taking the sample points to be right endpoints.

(2-5) Evaluate the integral.

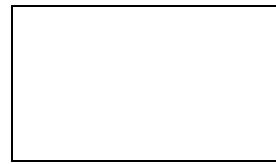
2.
$$\int_{-2}^3 x^4 dx$$

3.
$$\int_4^8 (4e^x + 1) dx$$

4.
$$\int_0^5 \frac{x + \sqrt{x}}{x^2} dx$$

over→

5. $\int_{\pi/4}^{\pi} \sec^2 x \cos^3 x \, dx$



6. The velocity of a car is given by the function $v(t) = 3t^{2/3}$, where velocity is measured in feet per second and time is measured in seconds. How far does the car move in the time from $t = 5$ to $t = 37$?

