

Quiz# 2

Name:

ID #:

Section:

Q1: Let f be a continuous function on $[-1,4]$ such that:

$$\int_{-1}^2 f(t)dt = 5 \text{ and } \int_1^2 f(2t)dt = 2$$

Then $\int_{-1/3}^{4/3} f(3t)dt$

Q2: $\int_{-1}^0 (x+1) e^{-x(x+2)} dx =$

Q3. Let $f(x) = \int_x^3 \sin(t^2) dt$; then $f'(\frac{\sqrt{\pi}}{2})$

Q4. Let $v(t) = t^2 - t - 2$, be the velocity function (in meter per second) for a particle moving along a line. The total distance travelled by the particle during the period $0 \leq x \leq 3$