KFUPM	Term 172	Date:8/2/2018
Mathematics & Statistics	MATH 102	Duration: 20 minutes
	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 $0 \le x \le 3$