Math102 Term172

Sec 31   Quiz 2

Name	ID	Sr

Q1)(5points) A particle moves along a line so that its velocity at time t is $v(t) = t^2 - t - 2$.(measured in meters per seconds).

Find the **distance** of the particle during the time period $1 \leq t \leq 3$

Q2)(5points) Evaluate the following integral

$$I = \int_{-1}^{0} (x + 2)(x + 1)^{19} \, dx$$

Q3) (5points) Find the integral

$$I = \int \frac{\sin(2x)}{1 + \sin^2 x} \ln(1 + \sin^2 x) \, dx$$