

Quiz #3

Quiz Section: _____

SHOW YOUR WORK

1. (6 points) The velocity (in meters per second) for a particle moving in straight line is given as a function of time by $v(t) = t^2 - 3t + 2$, where t is in seconds. Find the total distance traveled by the particle from $t = 0$ to $t = 4$

2. (4 points) Compute the definite integral $\int_0^{\frac{\pi}{3}} \frac{\sin(x)}{\cos^4(x)} dx$