King Fahd University of Petroleum and Minerals
Math. & Stat. Department
161-Math 101 Quiz (4)

Name	ID	SEC 01

Q1) A particle is moving with a position function $s(t) = t^3 - t^2 + t + 1$. At which time its velocity is equal to 9?

Q2) Sand falls from a converyor belt at a rate of $10m^3/\min$ on the top of the Conical pile. The height of the pile is always three-eigths of the base diameter. How fast is the height changing when the pile is 4 m high?