

LAST Name (as seen on ROSI): _____ Tutorial Number: _____

FIRST Name (as seen on ROSI): _____ Student Number: _____

MIE 100S - Quiz number 1c: Jan 14, 2015: quiz duration = 20 minutes

A particle's position is defined by $x = \sin(3t)$ and $y = 4x^3$ (x, y, and t are in SI units)

- (a) What is the particle's velocity at $t = 4s$?
- (b) What is the x-component of the acceleration at $t = 7s$?