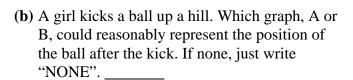
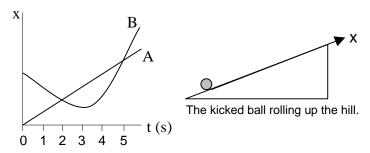
Recitation Instructor (circle one): Moe Larry Curly Groucho Chico Harpo

Class time (circle one): 10:30 11:30

QUIZ#2

1) (a) At approximately what time or times do particles A and B have the same speed? If none, just write "NONE".





- 2) A rocket, starting from rest, travels  $3.0 \times 10^8$  m in 500 s at constant acceleration. What was is final speed?
- 3) A particle's position is given by  $x(t) = 12 t^3 8$ , with t in seconds and x in meters. What is its acceleration at t = -2.0 s?
- 4) A pilot abandons his plane and falls for 20 m. He then deploys his parachute and decelerates at 3.0 m/s<sup>2</sup>. He hits the ground at 10.0 m/s (painful!). From what height did he abandon his plane?