Position, Velocity and Acceleration

- 1. Let a(t) = -32 for a ball thrown upward in the air. Let the initial velocity be 16 and the initial position be 20.
 - (a) Find the equations v(t) and s(t).
 - (b) When is the ball not moving?
 - (c) When does the ball hit the ground?
 - (d) What is the maximum height of the ball?
- 2. Let $a(t) = 2e^t + 12t$ for a partical in motion. Let the initial velocity be 16 and the initial position be 20.
 - (a) Find the equations v(t) and s(t).
 - (b) What is the particle's velocity at time t = 1.