- 9. The motion of a particle along a line is described by the velocity function $v(t) = -t^2 + 5t 6$. s(0) = 4
 - a) Find its position at time t.
 - b) Find its acceleration at time t.
 - c) For which times t is the particle at rest?
 - d) For which times t is the particle moving to the right?
 - e) For which times t is the particle moving to the left?
 - f) Find the distance traveled by the particle from t = 0 to t = 3.
 - g) Find the displacement of the particle between time t = 0 and t = 3.