

10. Given for a particle, where *s* is in meters and *t* is in seconds.

a. Find the velocity and acceleration as functions of *t.*

b. Find the acceleration after 1 second.

c. Find the acceleration at the instants when the velocity is zero (particle not in motion).

11. Given , where *s* is in meters and *t* is in seconds.

a. Find the times at which the acceleration is zero.

b. Find the displacement and velocity at these times.