$s(t)=t^{3}-8 t^{2}+20 t-16$
a. Find the displacement during the first 2 seconds.
b. Find the average velocity during the first 2 seconds.
c. Find the instantaneous velocity at any time $t$.
d. Find the acceleration of the particle at any time $t$.
e. When is the particle at rest?
f. Describe the motion of the particle.
g. Find the speed of the particle when the acceleration is zero.
$s(t)=\frac{1}{3} t^{3}-2 t^{2}+3 t$
a. Find the displacement during the first 2 seconds.
b. Find the average velocity during the first 2 seconds.
c. Find the instantaneous velocity at any time $t$.
d. Find the acceleration of the particle at any time $t$.
e. When is the particle at rest?
f. Describe the motion of the particle.
g. Find the speed of the particle when the acceleration is zero.

