Catipon, Joemar S. WD-201

1. The equation describes a particle’s motion and is represented by the equation x(t) = 3t2 + 5t + 2. What is the particle’s velocity at t = 3s?

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2. A car is stopped at the traffic light. It then travels along a straight road so that its distance from the light is given by x (t) =( 2.40 m/s2)t2 - (0.120m/s3)t3.

a. Calculate the car's average velocity for the time interval, t=0 s to t=10.0 s.

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b. Calculate the instantaneous velocity of the car at t=0s, t=5.0s, and t=10s.

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