Physics Practice Quiz A,B,C,D Unit 3

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Name: ______ Period _____

<u>Directions</u>: Show all your work and label all your units!!!!

Formula's:

1. An Automobile can be accelerated from 10 km/hr to 25 km/hr in 3.0 seconds. What is the acceleration in m/s^2 ? (1.39 m/s^2) 5 points.

- 2. What velocity is attained by an object that is accelerated at 0.85 m/s² for a distance of 150 m, it its initial velocity is 5 m/s? (16.73 m/s) 5 points.
- 3. A ball is thrown from the ground to the top of a large tree. If it returns to the ground after 12.0 seconds, what is the height of the tree in meters? (176.4 m Big Tree) 5 points.

Bonus:

A bag of mail is released from an ascending helicopter that is rising at 7 m/s. What time is required for the mail to reach the ground if released 175 meters above the surface. (6.73 sec) 5 points.