| Physics Practice Quiz A,B,C,D | $/ 15 \quad$ Name: |
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Directions: Show all your work and label all your units!!!!
Formula's:


Date: $\qquad$
Physics Practice Quiz A,B,C,D /15 Period

1. An Automobile can be accelerated from $10 \mathrm{~km} / \mathrm{hr}$ to $25 \mathrm{~km} / \mathrm{hr}$ in 3.0 seconds. What is the acceleration in $\mathrm{m} / \mathrm{s}^{2}$ ? ( $1.39 \mathrm{~m} / \mathrm{s}^{2}$ ) 5 points.
2. What velocity is attained by an object that is accelerated at $0.85 \mathrm{~m} / \mathrm{s}^{2}$ for a distance of 150 m , it its initial velocity is $5 \mathrm{~m} / \mathrm{s}$ ? ( $16.73 \mathrm{~m} / \mathrm{s}$ ) 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 $7 \mathrm{~m} / \mathrm{s}$. What time is required for the mail to reach the ground if released 175 meters above the surface. $(6.73 \mathrm{sec}) 5$ points.

