

Position – Velocity – Acceleration

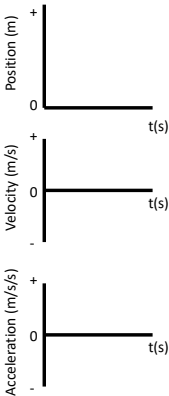
John A. Mercer, PhD

1

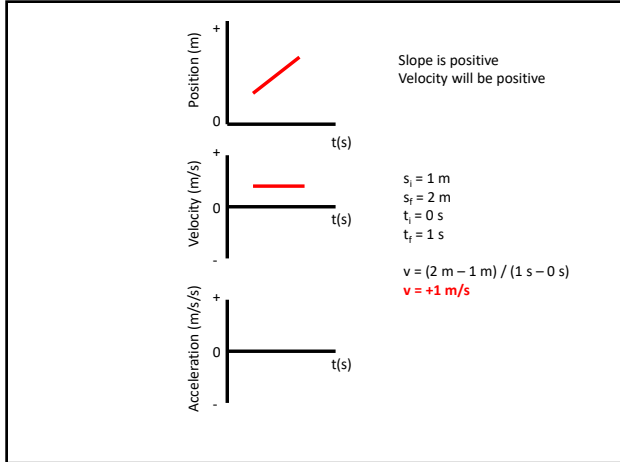
Kinematic Parameters

- Position
 - Displacement
 - Straight line distance between two points
 - $\Delta s = s_f - s_i$
 - Units of length (e.g., m)
- Velocity
 - Rate of change of displacement
 - $v = \Delta s / \Delta t$
 - Units of length / units of time (e.g., m/s)
- Acceleration
 - Rate of change of velocity
 - $a = \Delta v / \Delta t$
 - Units of velocity / units of time (e.g., m/s/s or m/s²)

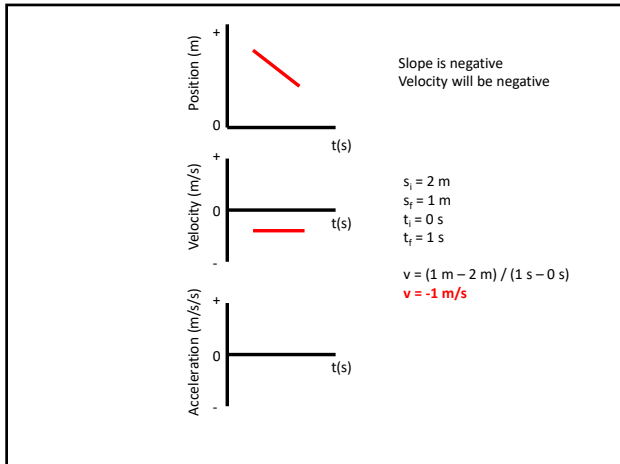
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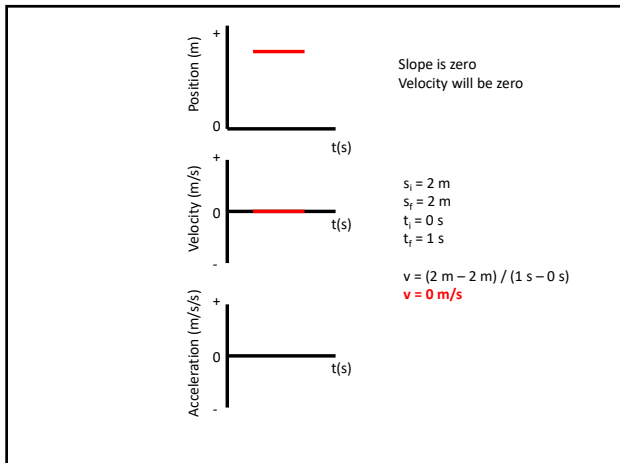
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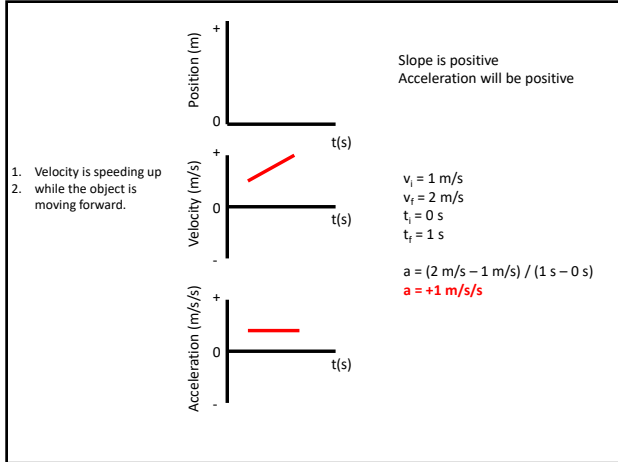
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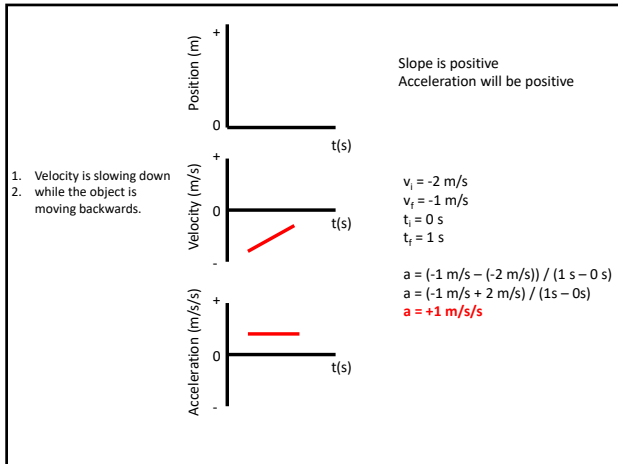
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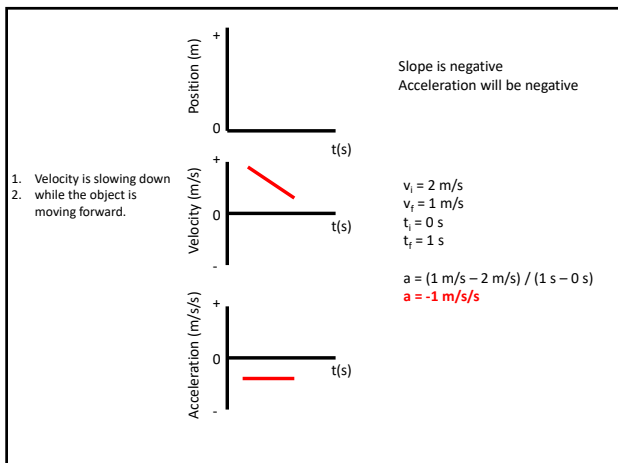
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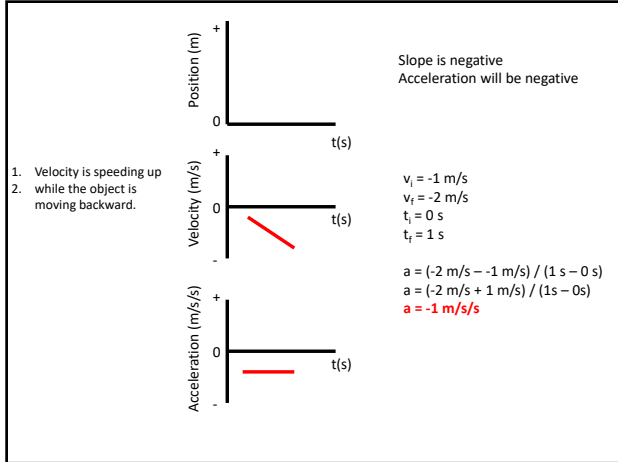
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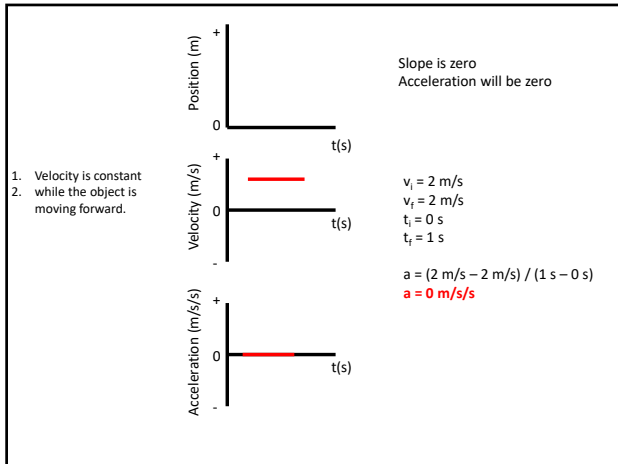
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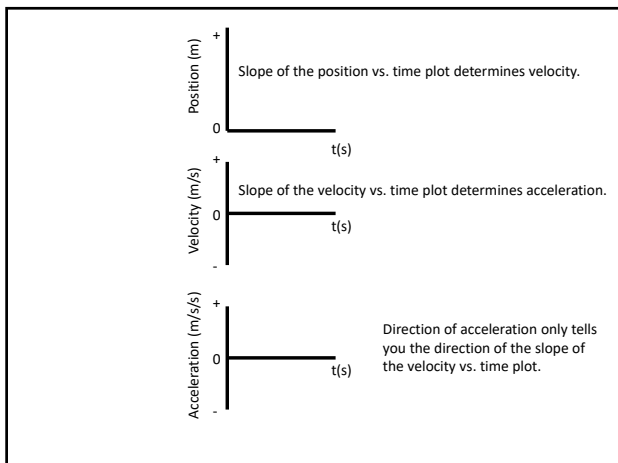
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