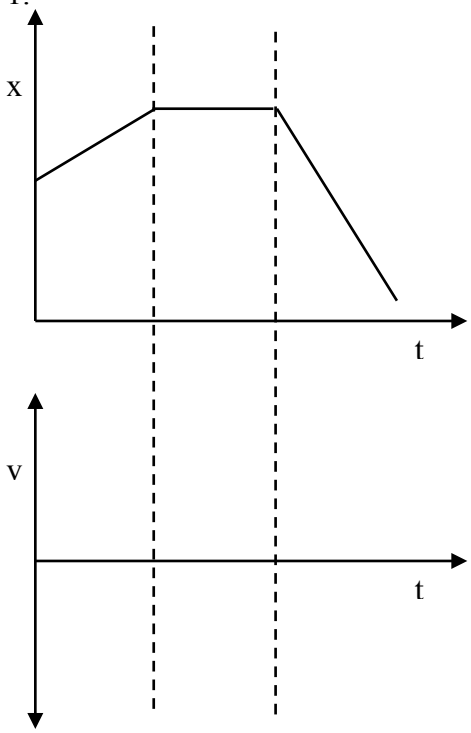
Constant Velocity Particle Model Worksheet 3 **Name**_____

Multiple Representations of Motion

Mod_____

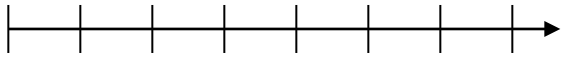
Given one motion representation, supply the missing motion representations. Remember to label Slopes on X vs t graphs and Area under the Curve on the V vs T graph.

1.



Written description:

Motion map:



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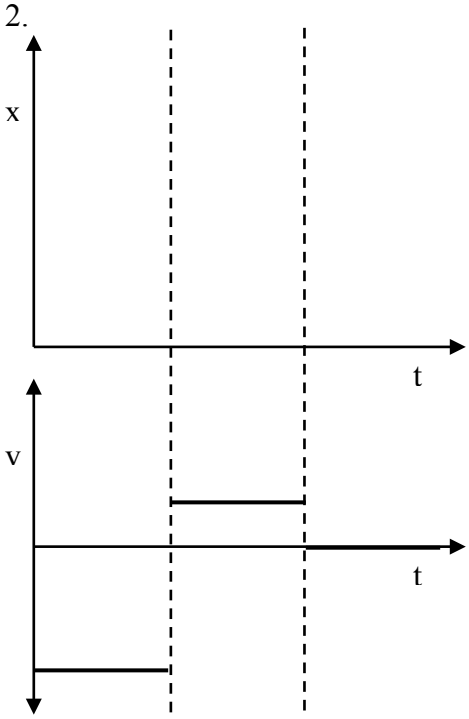
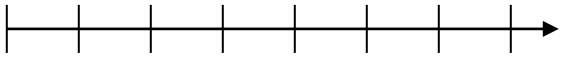


Written description:

Motion map:



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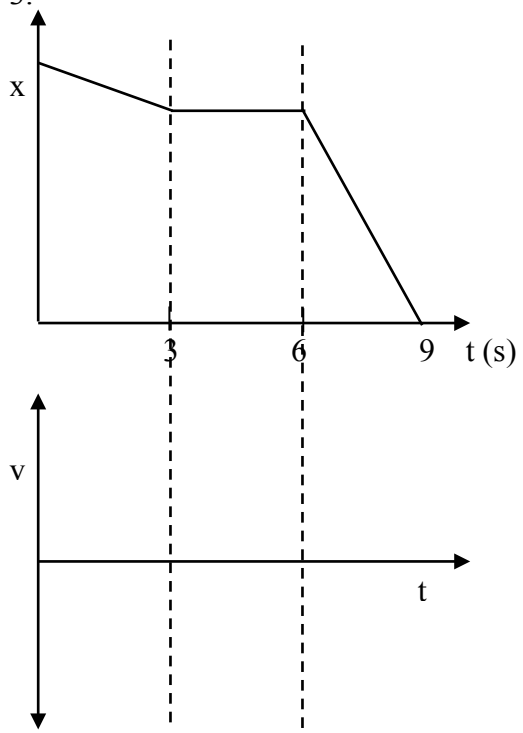
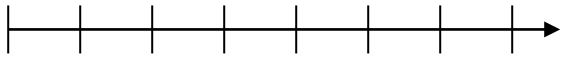


Written description:

Motion map:



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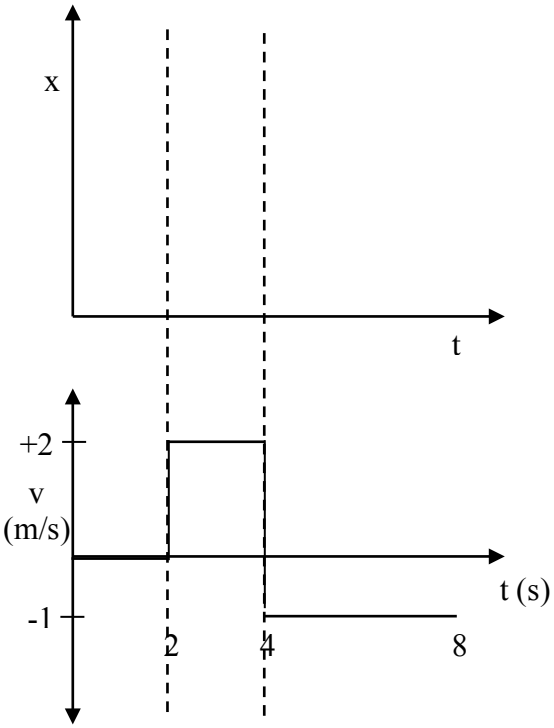
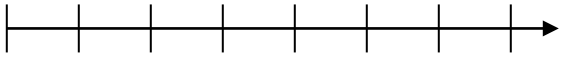


Written description:

Motion map:



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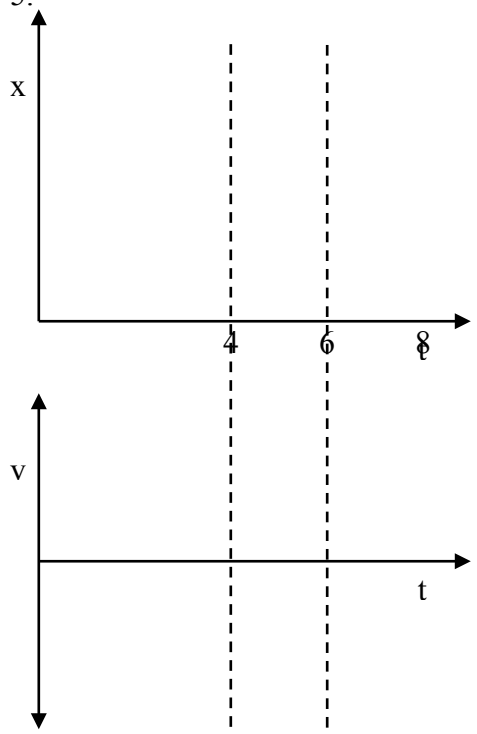
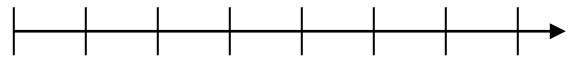


Written description:

Object moves with constant positive velocity for 4 seconds. Then, it stops for 2 seconds and returns to the initial position in 2 seconds.

Motion map:



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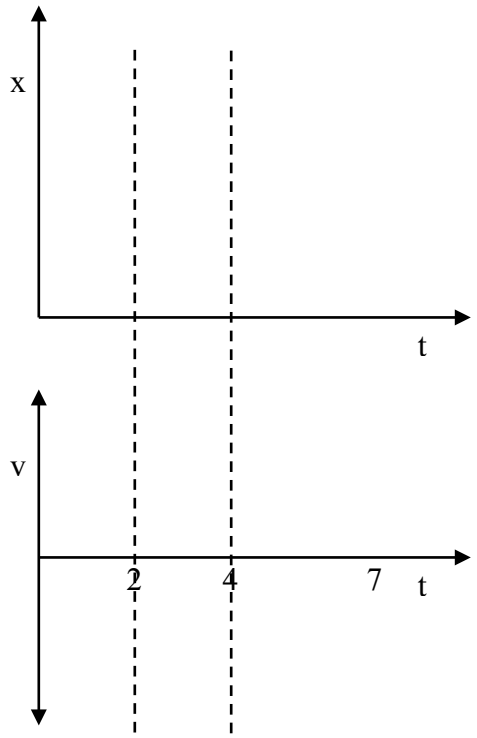
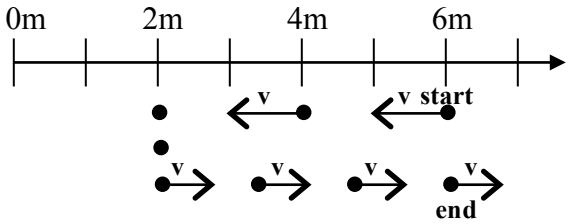


Written description:

Motion map: $\Delta t = 1$ s



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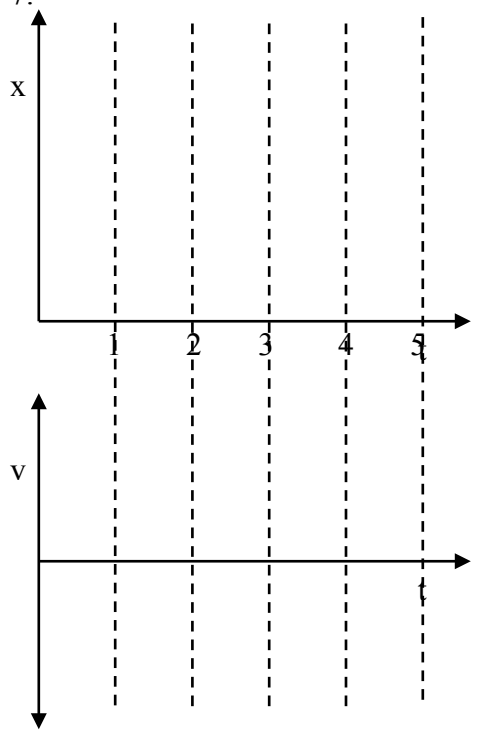
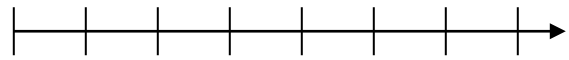


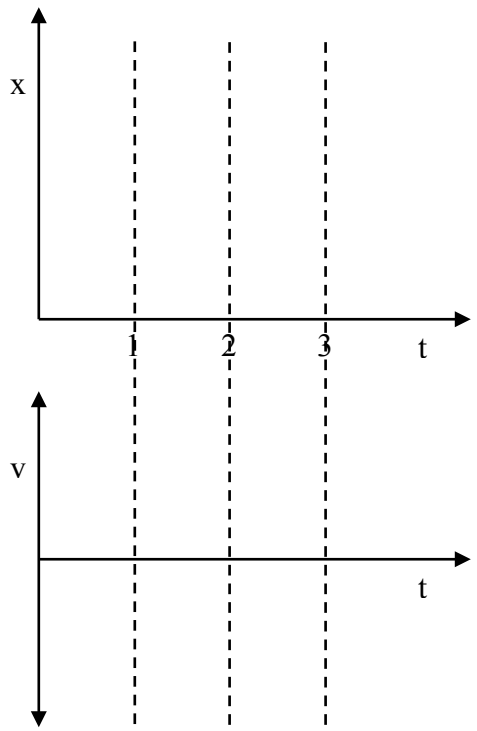
Written description:

Object A starts 10m to the right of the zero position and moves to the left at 2 m/s. Object B starts at the zero position and moves to the right at 3 m/s.

Motion map:



8.



Written description:

*Both objects begin moving at t = 0.

Motion map: $\Delta t = 1s$