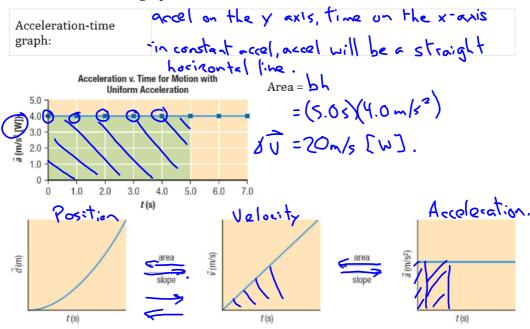
SPH3U: 1.4 Comparing Graphs of Linear Motion

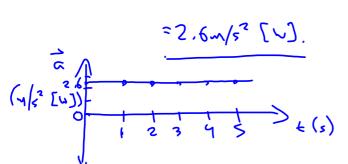
1. Acceleration-time graphs



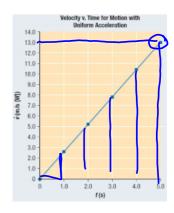
Use the acceleration-time graph above to generate velocity and time data for the object. Then use these data to plot a velocity-time graph.

Time t(s)	Acceleration \vec{a} (m/s² [W])	Equation $\Delta \vec{v} = \stackrel{\bullet}{\Delta} \vec{a} \Delta t$	Velocity \vec{v} (m/s [W])
0	٧.٥	Δ v = (4.0~/52)(05)	0
1.0	4.0	8 T = (4.0~/5°)(15)	٧.٥
2.0	ч.6	Du-(4.0~15)(25)	8.0
3.0	4.0	(35)	12.0
4.0	4.0	(45)	16.0
5.0	५.०	(55)	20.

Use the velocity-time graph shown to the right to plot the corresponding acceleration-time graph.







Homework:

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