

Wednesday 1/15/14

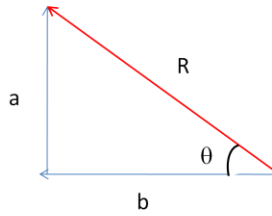
Finding the Resultant

- Pythagorean theorem for magnitude

$$R^2 = a^2 + b^2$$

- $\tan \theta$ for angle

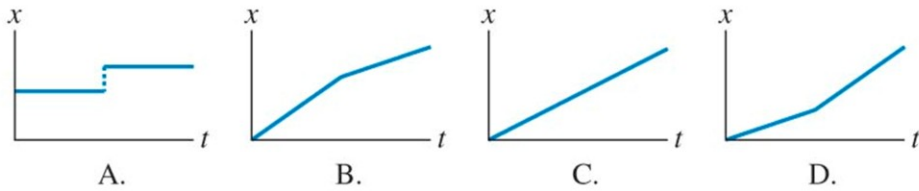
$$\tan \theta = a/b$$



Which position versus time graph represents this motion diagram?

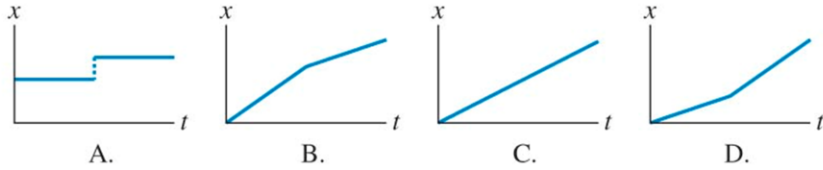


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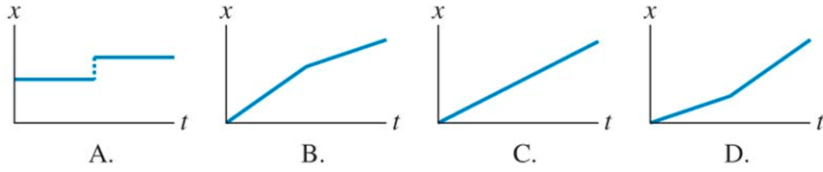
D. The motion is at a constant velocity and then increases to a constant larger velocity.

Which position versus time graph represents the situation where you stand still and then teleport to a spot left of where you were and stand still some more?



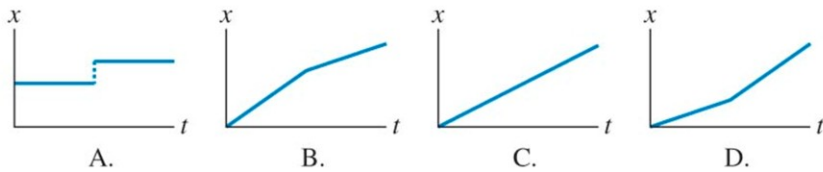
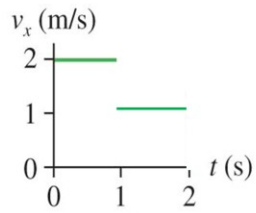
A. When a graph has an unrealistic jump in position, it is represented by a dotted line.

Which position versus time graph represents the situation where you move steadily to your right for a bit and then you continue moving to your right but at a slower speed?



B.

Which position versus time graph could match the velocity versus time graph shown?



B. Positive velocity and then positive but smaller velocity