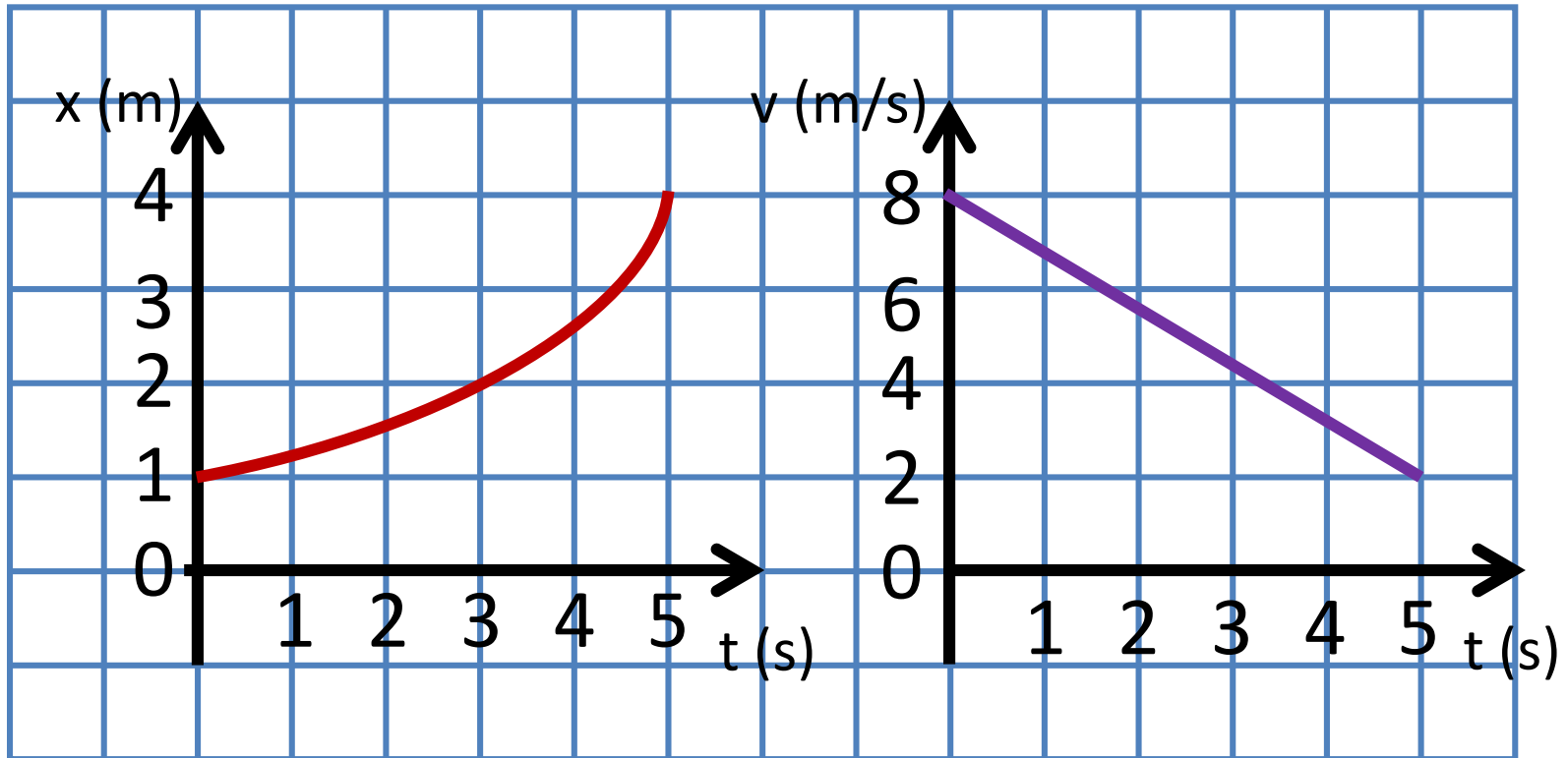


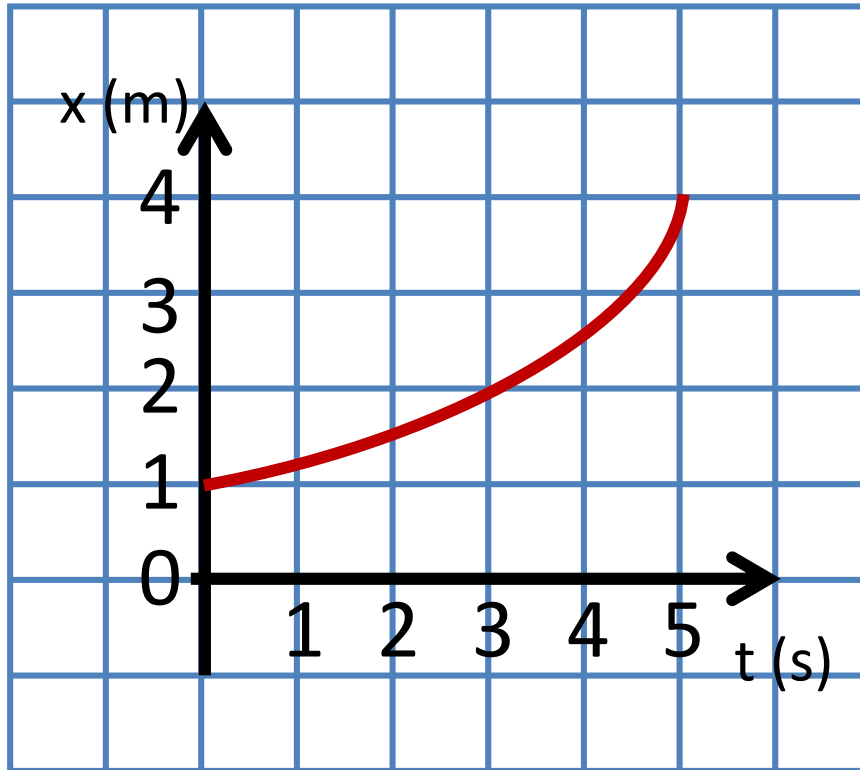
Evaluating Graphs (not Sketches)



Can we find numeric values to kinematic quantities?

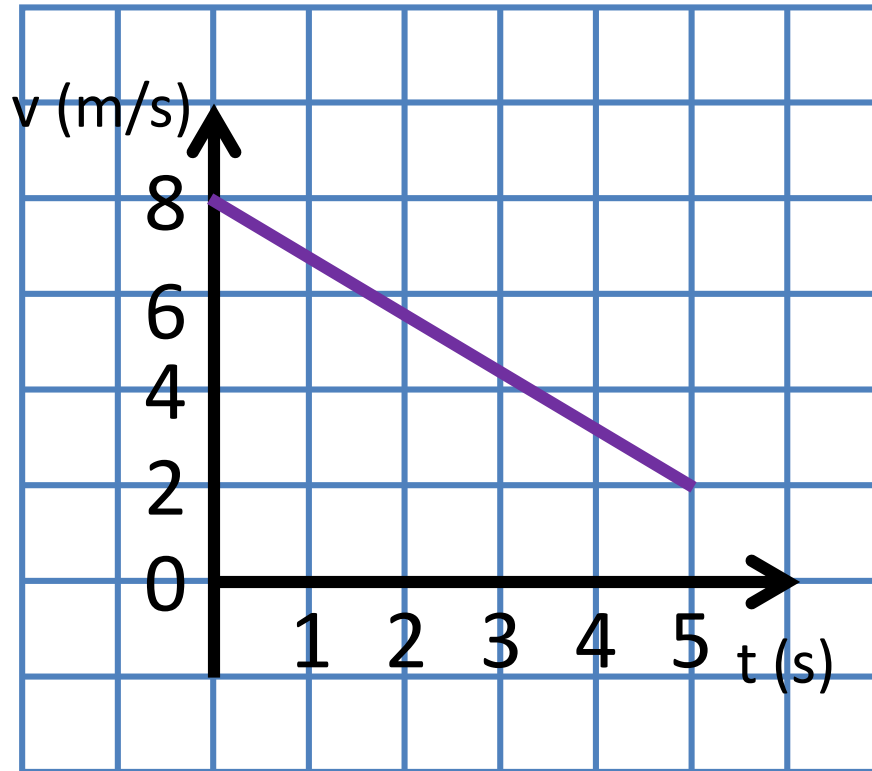
$$\Delta x, \Delta t, v_{\text{ave}}, v_0, v_f, a$$

x-t graphs



- Δx $\Delta x = x_f - x_0$
- Δt $\Delta t = t_f - t_0$
- v_{ave} $v_{ave} = \Delta x / \Delta t$
- v_0, v_f
yes but need to draw a
tangent line to get slope
- a
but can tell sign

v-t graphs



- v_0, v_f read scale
- Δt $\Delta t = t_f - t_0$
- Δx
area under curve or
 $\Delta x = v_{\text{ave}} \times \Delta t$
- v_{ave}
 $v_{\text{ave}} = \Delta x / \Delta t$, midpoint,
or $v_{\text{ave}} = \frac{1}{2}(v_f + v_0)$
- a slope