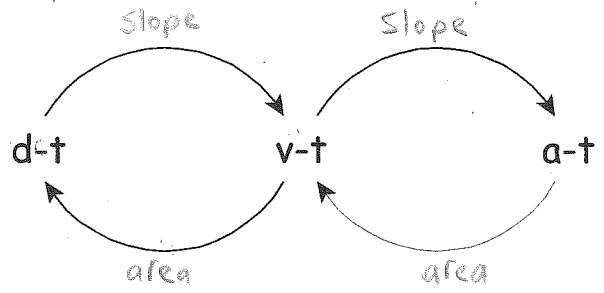


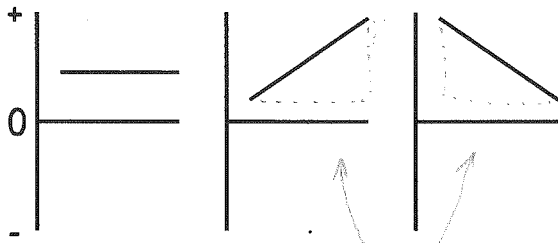
- Complete the following diagram to the right that relates position-time ($\vec{d}-t$), velocity-time ($\vec{v}-t$), and acceleration-time ($\vec{a}-t$) graphs.
- For each of the following d-t graphs:
 - sketch the corresponding v-t and a-t graphs (solid lines).
 - sketch the corresponding v-t and a-t graphs (dotted lines).
 - is there a difference between (a) and (b)?
- Indicate on your diagrams those graphs that represent (i) uniform motion and (ii) non-uniform motion.



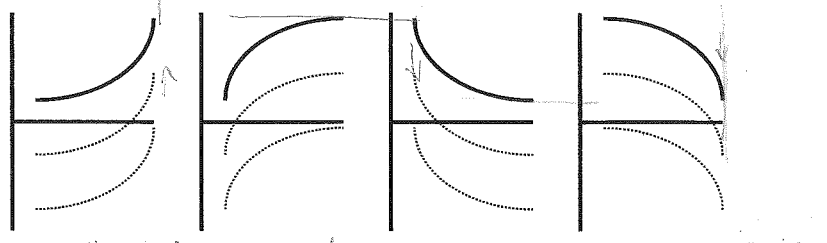
Remember that " AREA " IS CUMULATIVE!!
(triangle + box)

$$a = \frac{\Delta v}{\Delta t} \frac{m}{s} \div s$$

d-t

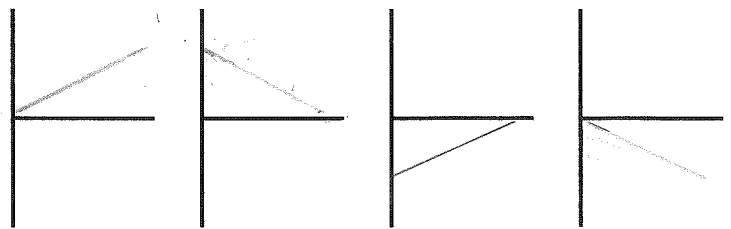


slope



Speeding up + positive dir + positive \vec{a}
 Slowing down - positive dir + negative \vec{a}
 Slowing down - negative dir - positive \vec{a}
 Speeding up + negative dir - negative \vec{a}

v-t



a-t

