Graphs practice

Monday, October 24, 2011 1:55 PM



b) backward constant velocity

d) backward acceleration

+





e) forward deceleration



g) object at rest







Sketch a velocity vs time graph which shows



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c) backward constant velocity

d) backward acceleration





e) forward deceleration

f) backward deceleration





g) object at rest





Kinematics is the study of motion using equations. There are 4 kinematic equations:

i)
$$d = 1/2 (V_f + V_o) t$$
 this is a special case of
 $\Delta d = V_{ave}$
 Δt

$$d = V_f + V_o$$

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ii) $at = V_f - V_o$ this is a special case of
 $\Delta V = a$

$$V = at$$

$$\Delta t$$

$$y = m \times t_b$$

$$\int d = V_o t + 1/2 at^2$$
 this is the formula for the area of a v vs t graph

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$$\int d = V_o t + 1/2 at^2$$
 this is a special case of the Law of
Conservation of Energy
$$\int d = V_o t$$

$$\int d = V_o t + v_i$$

$$\int$$

t(s)

V,

2