
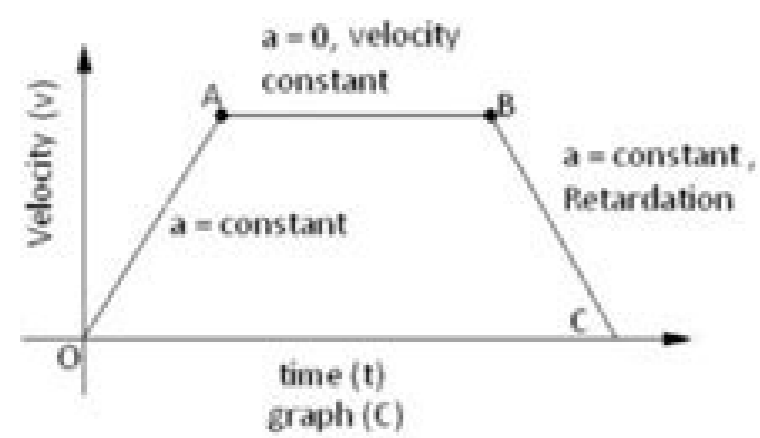
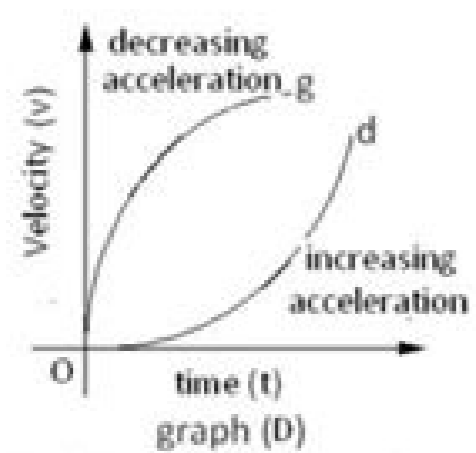


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Graph AB is parallel straight indicate object is moving with constant velocity or acceleration is zero
 Graph OA is oblique straight line slope is positive indicate object is uniformly accelerated
 Graph BC is oblique straight line slope is negative indicated object is uniformly decelerated



Graph Og represents decreasing acceleration as slop is decreasing with time
 Graph Od represent increasing acceleration as slop is increasing with time

When the velocity of the particle is plotted as a function of time, it is velocity-time graph. Area under the curve gives displacement

We know that

$$v = \frac{dS}{dt}$$

$$dS = v \cdot dt$$

ANSWER KEY

1. A track runner runs a 100-m dash in 11 seconds. What is his average velocity during the run?

$d = 100m$
 $t = 11s$
 $\bar{v} = ?$
 $\bar{v} = \frac{d}{t} = \frac{100m}{11s} \approx 9.1 m/s \sim 20.4 mph$

2. A car changes its velocity from 20 m/s to 40 m/s over a 4 second interval.
 a. What is the car's average velocity during this time?

$v_i = 20 m/s$
 $v_f = 40 m/s$
 $t = 4s$
 $\bar{v} = ?$
 $\bar{v} = \frac{v_i + v_f}{2} = \frac{20 + 40}{2} = \frac{60}{2} = 30 m/s = \bar{v}$

b. What is the average acceleration of the car? $a = ?$

$\bar{a} = \frac{\Delta v}{\Delta t} = \frac{40 - 20}{4} = \frac{20}{4} = 5 m/s^2 = a$

3. A truck traveling at 10 m/s accelerates at 15 m/s² for a period of 5 seconds. What is the velocity at the end of its period of acceleration?

$v_i = 10 m/s$
 $a = 15 m/s^2$
 $t = 5s$
 $v_f = ?$
 $v_f = v_i + at$
 $= 10 + 15 \cdot 5 = 85 m/s$

NAME: _____ After You Read

What Is Energy?

1. Put a check mark (✓) next to the answer that is most correct.

- a) All of these words describe forms of energy, except.
 A chemical
 B electrical
 C material
 D thermal
- b) Which of these kinds of energy travels in the form of waves?
 A chemical
 B kinetic
 C potential
 D sound
- c) How does an object gain potential energy?
 A by melting
 B by gaining speed
 C by cooling to a lower temperature
 D by being raised above the ground

2. Fill in each blank with a word from the list. One word will be left over.

thermal	waves	chemical
heat	mechanical	electrical

- a) _____ energy travels through wires.
 b) _____ energy is in the motion of particles.
 c) Light energy travels in _____.
 d) Kinetic and potential are the two kinds of _____ energy.
 e) When thermal energy moves to another place, it is called _____.

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