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JEE-Physics

Example #18

Some informations are given for a body moving in a straight line. The body starts its motion at t=0.

Information I : The velocity of a body at the end of 4s is 16 m/s

Information II : The velocity of a body at the end of 12s is 48 m/s

Information III : The velocity of a body at the end of 22s is 88 m/s

The body is certainly moving with

(A) Uniform velocity   (B) Uniform speed

(C) Uniform acceleration   (D) Data insufficient for generalization

Solution   **Ans. (D)**

Here average acceleration $= \dfrac{16-0}{4-0} = \dfrac{48-16}{12-4} = \dfrac{88-48}{22-12} = 4$

But we can't say certainly that body have uniform acceleration.

Example #19

A large number of particles are moving each with speed v having directions of motion randomly distributed. What is the average relative velocity between any two particles averaged over all the pairs?

(A) v   (B) $(\pi/4)v$ (C) $(4/\pi)v$ (D) Zero

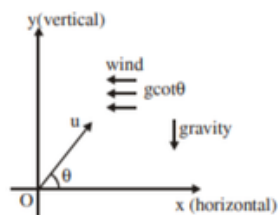**Solution :**   **Ans. (C)**

Relative velocity , $v_r = |\vec{v}_1 - \vec{v}_2|$ where $v_1 = v_2 = v$

If angle between them be θ, then $v_r = \sqrt{v^2 + v^2 - 2v^2 \cos\theta} = \sqrt{2v^2(1-\cos\theta)} = 2v\sin\left(\dfrac{\theta}{2}\right)$

Hence, average relative velocity $\bar{v}_r = \dfrac{\displaystyle\int_0^{2\pi} 2v\sin\dfrac{\theta}{2}d\theta}{\displaystyle\int_0^{2\pi} d\theta} = \dfrac{4v}{\pi}$

Example #20

A ball is projected as shown in figure. The ball will return to point :

(A) O   (B) left to point O   (C) right to point O   (D) none of these

Solution :   **Ans. (A)**

Here $\dfrac{a_x}{a_y} = \dfrac{g\cot\theta}{g} = \dfrac{1}{\tan\theta} = \dfrac{u_x}{u_y}$ $\Rightarrow$ Initial velocity & acceleration are opposite to each other.

$\Rightarrow$ Ball will return to point O.

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