

National Standard Examination in Physics

NSEP - 2022

Answer & Solutions

1. A particle moves along a straight line. Its displacement S varies with time t according to the law $S^2 = at^2 + 2bt + c$ (a , b and c are constants). The acceleration of this particle varies as

- A. S^0
- B. S^{-1}
- C. S^{-2}
- D. S^{-3}

Answer (D)

Sol. $S^2 = at^2 + 2bt + c$

Differentiate w.r.t. time, we get

$$2S \frac{dS}{dt} = 2at + 2b$$

$$S \frac{dS}{dt} = at + b \Rightarrow \frac{dS}{dt} = \frac{at+b}{S}$$

$$\left(\frac{dS}{dt} = v \right)$$

Again, differentiate w.r.t. time, we get

$$\frac{dS}{dt} \left(\frac{dS}{dt} \right) + S \left(\frac{d^2S}{dt^2} \right) = a$$

$$S \left(\frac{d^2S}{dt^2} \right) = a - \left(\frac{dS}{dt} \right)^2$$

$$S \left(\frac{d^2S}{dt^2} \right) = a - \left(\frac{at+b}{S} \right)^2$$

$$S \left(\frac{d^2S}{dt^2} \right) = \frac{aS^2 - (at+b)^2}{S^2}$$

$$S \left(\frac{d^2S}{dt^2} \right) = \frac{a(at^2+2bt+c) - (a^2t^2 + b^2 + 2abt)}{S^2}$$

$$\frac{d^2S}{dt^2} = \frac{ac-b^2}{S^2}$$

$$\text{i.e. Acc.} \propto S^{-3}$$

2. A ball A (mass m_1) moving with velocity v experiences an elastic collision with another stationary ball B (mass m_2). Each ball flies apart symmetrically relative to the initial direction of motion of ball A, at an angle θ .

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Siddappa N.Byrareddy



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