

In option (A) particle reaches at origin with positive kinetic energy

$$\frac{dU(z)}{dz} = 0 \text{ at } z = \frac{3R}{\sqrt{7}}$$

at 
$$\beta = \frac{1}{4}$$
 and  $z = \frac{3R}{\sqrt{7}}$ 

$$U(z)_{\text{rest}} = \sqrt{7}Rc = 2.645$$

- ⇒ In option B at U(z)<sub>met</sub> ≈ 3Rc
- ⇒ The kinetic energy at origin will become negative

at 
$$x = \frac{R}{\sqrt{3}}$$

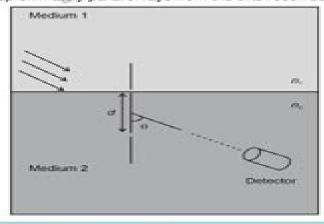
 $\Rightarrow$  In option (C),  $U(z)_{net}$  at  $z = \frac{R}{\sqrt{3}} < U(z)_{net}$  at z = 0,

And 
$$U(z)_{cost}$$
 at  $z = \frac{R}{\sqrt{3}} > U(z)_{cost}$  at  $z = \frac{3R}{\sqrt{7}}$ 

- Particle will return back to z<sub>n</sub>.
  - In option (D) ( $\beta > 1$ ,  $z_0 > 0$ )

 $U(z)_{cont}$  will keep on increasing with z

- Particle always reaches the origin.
- ⇒ Answer (A, C, D)
- 13. A double slit setup is shown in the figure. One of the slits is in medium 2 of refractive index no. The other slit is at the interface of this medium with another medium 1 of refractive index no (x no). The line joining the slits is perpendicular to the interface and the distance between the slits is d. The slit widths are much smaller than d. A monochromatic parallel beam of light is incident on the slits from medium 1. A detector is placed in medium 2 at a large distance from the slits, and at an angle 0 from the line joining them, so that 0 equals the angle of refraction of the beam. Consider two approximately parallel rays from the slits received by the detector.



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# **Table of Contents Popy Library Physics Question**

- 1. Understanding the eBook Popy Library Physics Question
  - The Rise of Digital Reading Popy Library Physics Question
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Popy Library Physics Question
  - Exploring Different Genres
  - o Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Popy Library Physics Question
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Popy Library Physics Question
  - Personalized Recommendations
  - Popy Library Physics Question User Reviews and Ratings
  - Popy Library Physics Question and Bestseller Lists

- 5. Accessing Popy Library Physics Question Free and Paid eBooks
  - Popy Library Physics Question Public Domain eBooks
  - Popy Library Physics Question eBook Subscription Services
  - Popy Library Physics Question Budget-Friendly Options
- 6. Navigating Popy Library Physics Question eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - Popy Library Physics Question Compatibility with Devices
  - Popy Library Physics Question Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Popy Library Physics Question
  - Highlighting and Note-Taking Popy Library Physics Question
  - Interactive Elements Popy Library Physics Question
- 8. Staying Engaged with Popy Library Physics Question
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Popy Library Physics Question
- 9. Balancing eBooks and Physical Books Popy Library Physics Question
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Popy Library Physics Question
- 10. Overcoming Reading Challenges
  - $\circ\,$  Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Popy Library Physics Question
  - Setting Reading Goals Popy Library Physics Question
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Popy Library Physics Question
  - Fact-Checking eBook Content of Popy Library Physics Question
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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