

①

$$\frac{rV}{\lambda_0} = \frac{n}{\lambda}$$

$$\lambda_0 \cdot n = rV\pi$$

$$n = \frac{rV\pi}{\lambda_0}$$

$$\frac{rV}{\lambda_0} = \frac{n}{\lambda} \Rightarrow \lambda \cdot n = rV\pi \Rightarrow n = \frac{rV\pi}{\lambda_0}$$

$$2.) \frac{\Delta\pi}{\pi} = \frac{n}{\lambda_0} = \frac{\Delta}{\lambda} \Rightarrow \lambda \cdot n = \Delta \cdot \pi \Rightarrow n = \frac{\Delta \times \lambda_0}{\pi}$$

$$\frac{\Delta\pi}{\pi} = \frac{n}{\lambda_0} \Rightarrow \lambda \cdot n = \Delta \cdot \pi \Rightarrow n = \frac{\Delta \times \lambda_0}{\pi}$$

(18)

$$\frac{rV\omega a}{a} = \frac{n}{\lambda_0} \Rightarrow \frac{rV\omega a}{a \times rV\omega} = \frac{n}{\lambda_0}$$

$$\frac{rV\omega a}{\lambda_0} = \frac{n}{\lambda} \Rightarrow n = \frac{rV\omega a}{\lambda_0}$$

$$\frac{a\pi}{\lambda} = \frac{n}{\lambda_0} \Rightarrow \frac{a}{\lambda} = \frac{n}{\lambda_0} \Rightarrow \lambda_0 a = \lambda n$$

$$\frac{\lambda_0 a}{\lambda} = n$$

$$rV, \Delta + rV, \Delta + \lambda_0 a = \lambda_0$$

$$\sum \Delta a = \lambda_0$$

3

$$\frac{1}{2} \left(\frac{1}{2} \times \frac{\sqrt{r}}{2} \right) - \left(\frac{\sqrt{r}}{2} \times \frac{1}{2} \right) - (1) + (r)$$

$$-1 + r = 1$$

$$\frac{1}{2} + 1 + r = \frac{r}{\sqrt{r}} = \frac{1}{\sqrt{r}} = \frac{1}{\sqrt{r}}$$

$$\frac{1}{2} \left(\frac{1}{2} \times \frac{\sqrt{r}}{2} \right) - \left(\frac{\sqrt{r}}{2} \times \frac{1}{2} \right) - (1) + (r)$$

4

$$\left(\frac{1}{2} \times \frac{1}{2} \right) + \frac{\sqrt{r}}{2} \times \frac{\sqrt{r}}{2} = \sin^2 \theta$$

$$\frac{1}{4} + \frac{r}{4} = \sin^2 \theta$$

$$\frac{1}{2} \times \frac{\sqrt{r}}{2}$$

$$\frac{1}{2} \times \frac{\sqrt{r}}{2}$$

$$\frac{r}{4} = \sin^2 \theta$$

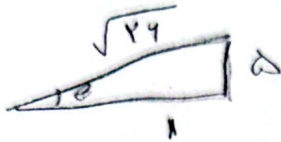
$$\Rightarrow \frac{1}{\sin^2 \theta} + \frac{1}{\cos^2 \theta} = 1 \Rightarrow \cos^2 \theta = \frac{1}{2}$$

$$\Rightarrow \tan \theta = \frac{1}{\sqrt{2}} = 1$$

$$\frac{r\sqrt{r}}{2} \left(1 - \frac{1}{2} \right) = \frac{r\sqrt{r}}{2} \left(1 - \frac{1}{2} \right)$$

$$= \frac{r\sqrt{r}}{2} \left(1 - \frac{1}{2} \right) = \frac{r\sqrt{r}}{2} \left(1 - \frac{1}{2} \right)$$

5



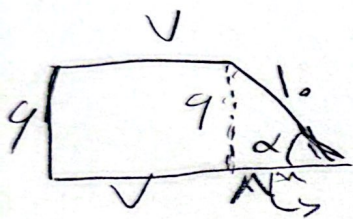
$$\sin \theta = \frac{a}{\sqrt{14}}$$

$$\cos \theta = \frac{1}{\sqrt{14}}$$

$$\frac{\frac{1a}{\sqrt{14}} - \frac{1}{\sqrt{14}}}{\frac{a}{\sqrt{14}} - \frac{1}{\sqrt{14}}} = \frac{\frac{1a-1}{\sqrt{14}}}{\frac{a-1}{\sqrt{14}}} = \frac{1a-1}{a-1} = 1$$

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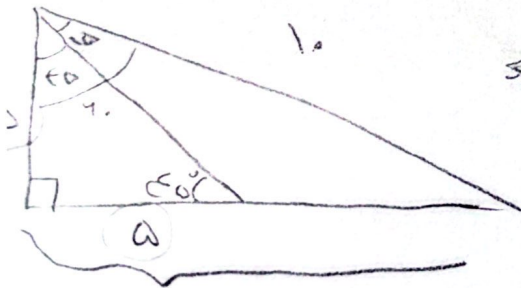
$$\sin \alpha = \frac{9}{10}$$

$$\sin \alpha = \frac{9}{10} \Rightarrow \frac{9}{10} = 1$$

$$a = \sqrt{10^2 - 9^2} = 1$$

$$L = \frac{9+V}{13} + \frac{10+1a}{10} = 1$$

(1)



$$\cos \alpha = \frac{1}{1}$$

$$\frac{1}{1} = \frac{1}{1} \Rightarrow 1 = 1$$

$$1.0^2 - 1.0^2 = a^2 + n^2$$

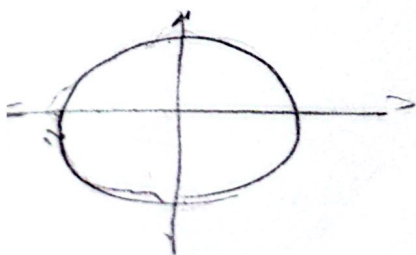
$$\sqrt{a} = n$$

$$\sqrt{a} = n \Rightarrow DC = \sqrt{a} - a$$

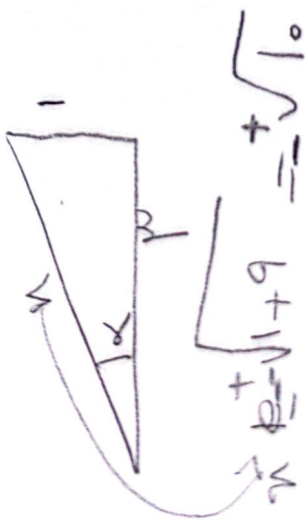
سور (ب)

(A)

سور (ـ)



1.



$$\sin \alpha = \frac{1}{\sqrt{10}}$$

داده شده $\sin \alpha = \frac{1}{\sqrt{10}}$