

اردین عباسی

$$\left(\frac{\sqrt{2}}{2} - \frac{\sqrt{2}}{2}\right) \left(\frac{\sqrt{2}}{2} + \frac{\sqrt{2}}{2}\right) \rightarrow \frac{2}{2} - \frac{2}{2} = \left(\frac{1}{2}\right) \checkmark \text{ (الف)}$$

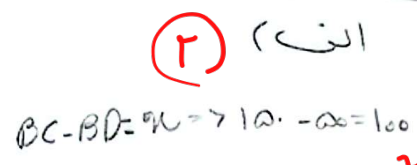
$$\frac{1 + \cancel{\psi\left(\frac{1}{r}\right)} = r}{\cancel{\psi\left(\frac{r}{r}\right)} + \psi\left(\frac{1}{r}\right) = c} = \frac{1}{r} \quad \checkmark$$

$$(\sqrt{r^w})^r + 0 = (r \sqrt{r^w})^r \quad \text{AHC است}$$

$$P + Q = 11 \rightarrow Q = 11 - P \rightarrow 9 = 11 - P \rightarrow P = 2$$

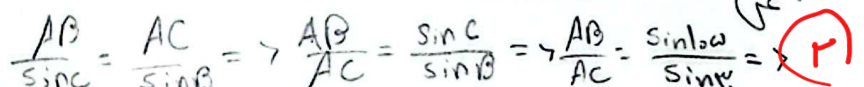
$$AC = \frac{\sqrt{10} \cdot 9}{(1 + 4\sqrt{10})}$$

$$\frac{AH}{AB} = \sin B \rightarrow \frac{\frac{\sqrt{10}}{2}}{\frac{\sqrt{10}}{2} \sqrt{5}} = \frac{\sqrt{10}}{\sqrt{5}} = \frac{\sqrt{10} \cdot \sqrt{5}}{5} = \frac{\sqrt{50}}{5}$$



$$1 + \frac{1}{12} = \frac{13}{12} \rightarrow PC = \sqrt{13}$$

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



$$\sin 100 = \sin(40 + 60) = \sin 40 \cos 60 + \cos 40 \sin 60 = \frac{\sqrt{q} + \sqrt{p}}{r} \Rightarrow \frac{AB}{AC} = \frac{\frac{\sqrt{q} + \sqrt{p}}{r}}{\frac{1}{r}} = \frac{\sqrt{q} + \sqrt{p}}{1}$$

$$S = \frac{AB \sin \alpha}{r} \rightarrow \frac{\frac{P \times K \times \sin \theta}{r}}{\frac{q \times r \times \sin \theta}{r}} = S \frac{P \times K}{q \times r} = \frac{1}{1\text{m}} = \frac{r}{9}$$

(۵) - جیسا کہ سوال ہے، دیکھی گئی ہے؛ اور یہاں تا لکھی ہوئی ہے۔

$$\text{الف) } \cancel{r} \left(\frac{r \cancel{r} \times \sin \alpha}{\cancel{r}} \right) \Rightarrow r \times r \times \frac{\sqrt{3}}{r} \Rightarrow \frac{r \sqrt{3}}{r} = \sqrt{3} \checkmark$$

(2) (4)

$$\text{ب) } \frac{1}{2} ab \sin \alpha \rightarrow \frac{1}{2} \times r \times r \times \frac{\sqrt{3}}{r} \rightarrow \frac{r \sqrt{3}}{2} \checkmark$$

$$\tan \frac{\theta}{2} = \frac{r - r}{r + r} = \frac{r}{r} = \frac{1}{r} \rightarrow \begin{array}{c} \sqrt{3} \\ \text{triangle} \\ r \end{array} \rightarrow \cos \theta = \frac{r}{\sqrt{3}} = \frac{r \sqrt{3}}{3} \checkmark$$

(2) (5)

$$\tan \theta = \frac{m_2 - m_1}{1 + m_1 m_2} \Rightarrow \frac{\tan 45^\circ - \tan 60^\circ}{1 + \tan 45^\circ \tan 60^\circ} = \frac{\sqrt{3} - 1}{1 + \sqrt{3}} \rightarrow \left| \frac{m_2 - m_1}{1 + m_1 m_2} \right| = \frac{r \sqrt{3}}{r}$$

(1,5) (1)

$$\frac{m_2 - m_1}{1 + m_1 m_2} = \frac{1 - \sqrt{3}}{1 + \sqrt{3}} \Rightarrow m_2 = -\frac{\sqrt{3}}{1}$$

$$m = -\frac{\sqrt{3}}{1} \times \frac{r}{r} \Rightarrow -\frac{\omega \sqrt{3}}{r}$$

$J = r + \frac{\omega}{r} \rightarrow \frac{\omega}{r} = \frac{1}{r}$
- چون r از یک نقطه (مثلاً مرکز) از مبدأ دوری (مثلاً مرکز) داریم

$$f(\alpha) = -\cos + \cos \Rightarrow \cot \alpha \Rightarrow \cot \alpha \quad f\left(\frac{\omega \pi}{r}\right) = \cot 10^\circ \Rightarrow -\sqrt{3} \checkmark$$

(2) (4)

$$\left. \begin{array}{l} \frac{1}{r} + \frac{r}{r} = \sin\left(\frac{1}{r} \pi + \alpha\right) = \frac{1}{r} \sin\left(\frac{\pi}{r} + \alpha\right) = \cos \alpha \\ \frac{1}{r} + \frac{r}{r} = \cos\left(\frac{1}{r} \pi + \alpha\right) = \cos\left(\frac{\pi}{r} - \alpha\right) = -\sin \alpha \end{array} \right\}$$

$$\cos \alpha = \sin \alpha \quad \text{معادله}$$

$$\left. \begin{array}{l} \cos(r\pi + \alpha) = \cos(\pi + \alpha) = -\cos \alpha \\ \sin(r\pi - \alpha) = \sin(-\alpha) = -\sin \alpha \end{array} \right\} \quad \sin \alpha = \cos \alpha \quad \text{معادله}$$

$$\frac{\cos \alpha - \sin \alpha}{\sin \alpha - \cos \alpha} = -1 \checkmark$$

(2) (1)