

$$\sec x - \tan x = 1 \rightarrow \sec x = \frac{1 + \tan x}{1} \rightarrow \sec x = 1 \rightarrow \sec x = \frac{1}{\cos x} = 1 \rightarrow \cos x = \frac{1}{\sec x} = \frac{1}{1} = 1$$

$$\rightarrow x = \arccos \pm \frac{a}{\sqrt{a^2}} \rightarrow \text{جواب } [0, \pi]$$

$$\Delta P^Y(n) + Y \cos(Yn) = -Y$$

$$Y \cos(Yn) + Z_n = 1$$

$$\rightarrow Y \cos(Yn) (1 - Y \cos(Yn)) + Z_n = 1 \rightarrow -Y \cos^2(Yn) + Y \cos(Yn) - 1 = 0$$

$$\rightarrow (Z_{n+1}) (-Y \cos^2(Yn) + Y \cos(Yn) - 1) = 0 \Rightarrow \begin{cases} Z_n = -1 \rightarrow x = \arccos \pm \frac{a}{\sqrt{a^2}} \\ Z_n = \frac{1}{Y} \Rightarrow x = \arccos \pm \frac{a}{\sqrt{a^2}}, \arccos \pm \frac{\Delta a}{\sqrt{a^2}} \end{cases} \Rightarrow \frac{a}{\sqrt{a^2}} + \frac{\Delta a}{\sqrt{a^2}} + \frac{\cos a}{\sqrt{a^2}} = \frac{\Delta a}{\sqrt{a^2}}$$

$$\frac{1}{\frac{Z_n(a+n)}{Y}} + \frac{1}{\frac{Y \cos(Yn)}{Y}} = 0 \rightarrow \frac{Y \cos(Yn) - Z_n}{-Y \cos(Yn) Z_n} = 0 \rightarrow Y \cos(Yn) - Z_n = 0 \rightarrow Y \cos(Yn) (1 - Y \cos(Yn)) = 0$$

$$\rightarrow \begin{cases} Y \cos(Yn) = 0 \times \text{ممكن في كل } Z_n \\ Z_n = \frac{1}{Y} \rightarrow n = \arccos \pm \frac{a}{\sqrt{a^2}}, \arccos \pm \frac{\Delta a}{\sqrt{a^2}} \end{cases}$$

$$\sec\left(n + \frac{a}{\sqrt{a^2}}\right) = \frac{1}{\sqrt{a^2}} \rightarrow \sec\left(n + \frac{a}{\sqrt{a^2}}\right) = \sec\left(-n + \frac{a}{\sqrt{a^2}}\right) = -\sec\left(n - \frac{a}{\sqrt{a^2}}\right) \rightarrow -\sec\left(n - \frac{a}{\sqrt{a^2}}\right) = \frac{1}{\sqrt{a^2}}$$

$$\rightarrow \frac{\sec n - Z_n}{\sqrt{a^2}} = \frac{1}{\sqrt{a^2}} \rightarrow \boxed{\sec n - Z_n = \frac{\sqrt{a^2}}{\sqrt{a^2}} = \frac{\sqrt{a^2}}{Y}} \rightarrow \frac{a}{a} = \frac{\sec n - Z_n}{Y} \rightarrow \boxed{Z_n = \frac{1}{Y}}$$

$$m(\sec n - Z_n) - \sqrt{a^2} Z_n = \sqrt{a^2} \rightarrow \frac{m\sqrt{a^2}}{Y} - \frac{\sqrt{a^2}}{Y} = \sqrt{a^2} \rightarrow \frac{m\sqrt{a^2}}{Y} = \sqrt{a^2} \rightarrow m = Y$$

$$\sec\left(n + \frac{a}{\sqrt{a^2}}\right) \sec\left(n - \frac{a}{\sqrt{a^2}}\right) = 1 \rightarrow \sec\left(n + \frac{a}{\sqrt{a^2}}\right) \sec\left(\frac{a}{\sqrt{a^2}} - n\right) = 1 \rightarrow \sec\left(n + \frac{a}{\sqrt{a^2}}\right) = 1 \rightarrow \sec\left(n + \frac{a}{\sqrt{a^2}}\right) = \pm 1$$

$$\rightarrow n + \frac{a}{\sqrt{a^2}} = \arccos \pm \frac{a}{\sqrt{a^2}} \rightarrow x = \arccos \pm \frac{a}{\sqrt{a^2}}$$

جواب
[0, \pi]

جواب

$$\frac{z_n + \sqrt{1 - c^2}}{c} = \sqrt{1 - c^2} \rightarrow \frac{z_n + \sqrt{1 - c^2}}{c} = \sqrt{1 - c^2} \rightarrow z_n + \sqrt{1 - c^2} = c\sqrt{1 - c^2} \rightarrow z_n = c\sqrt{1 - c^2} - \sqrt{1 - c^2} \quad -V$$

$$\rightarrow z_n + \frac{a}{p} = \frac{1}{p} \rightarrow z_n = \frac{1}{p} - \frac{a}{p} = \frac{1-a}{p}$$

$$\rightarrow z_n = \frac{1-a}{p}, \frac{1+a}{p}$$

جواب ۳
[a, 1/a]

$$\frac{z_n + \sqrt{1 - c^2}}{c} = 1 \rightarrow \frac{z_n + \sqrt{1 - c^2}}{c} = 1 \rightarrow z_n + \sqrt{1 - c^2} = c \rightarrow z_n = c - \sqrt{1 - c^2} \quad -A$$

$$\rightarrow z_n = \frac{1-a}{p}, \frac{1+a}{p} \rightarrow z_n = \frac{1-a}{p}, \frac{1+a}{p}$$

جواب ۴
[0, 1/a]

$$(1 + \cos(\alpha))(1 + \cos(\beta))(1 + \cos(\gamma)) = \frac{1}{\lambda} \xrightarrow{1 + \cos(\alpha)\cos(\beta)\cos(\gamma)} (1 + \cos(\alpha))(1 + \cos(\beta))(1 + \cos(\gamma)) = \frac{1}{\lambda} \quad -9$$

$$\rightarrow \lambda[(\cos(\alpha)\cos(\beta)\cos(\gamma))] = \frac{1}{\lambda} \rightarrow (\cos(\alpha)\cos(\beta)\cos(\gamma)) = \pm \frac{1}{\lambda} \xrightarrow{\times \frac{1}{\cos(\alpha)}} \frac{\cos(\beta)\cos(\gamma)}{\cos(\alpha)} = \pm \frac{1}{\lambda} \cos(\alpha)$$

$$\int \frac{1}{\cos(\alpha)} = \frac{1}{\cos(\alpha)} \rightarrow \alpha = \frac{1}{\cos(\alpha)}$$

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مکان = ۲
[0, π] جواب

$$\tan(\alpha)\tan(\beta) = 1 \rightarrow \tan(\alpha) = \cot(\beta) \rightarrow \alpha = \frac{\pi}{2} - \beta \rightarrow \alpha = \frac{\pi}{2} - \beta$$

$$\rightarrow \frac{\pi}{2}, \frac{3\pi}{2} \rightarrow \text{جواب} = \pi$$

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