

B با توجه به

$$\cot \alpha = \frac{\cos \alpha}{\sin \alpha}$$

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

۲۰ آهنگ!

پس همان مقصودش
 (۲) (۱) نتیجه اول ✓

$$\alpha < \frac{1}{2}$$

$$\sin \alpha = \frac{m-1}{f}$$

$$-\frac{m}{12} < \alpha < \frac{m}{12}$$

$$-\frac{1}{2} < \sin \alpha < \frac{1}{2}$$

$$-\frac{1}{2} < \frac{m-1}{f} < \frac{1}{2}$$

(۲) (۲)

$$m = (-1 \text{ یا } 1) \checkmark$$

$$f < 2-2m$$

$$2m < -2$$

$$m < -1$$

$$m-1 < f$$

$$m < f+1$$

$$\tan \alpha \cot \alpha = -2$$

$$\frac{m}{f} < \alpha < \frac{m}{f}$$

$$\frac{1}{\sin^2 \alpha \cos^2 \alpha} = \frac{1}{(\sin \alpha \cos \alpha) (\sin^2 \alpha \cos^2 \alpha + \sin^2 \alpha \cos^2 \alpha)}$$

(۲) (۳)

$$\frac{1}{\sin \cos} = -2$$

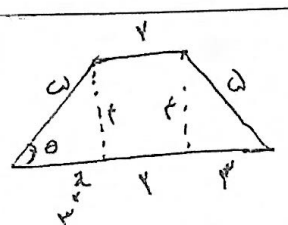
$$\sin \cdot \cos = -\frac{1}{2}$$

$$(\sin \alpha \cos \alpha)^2 = \sin^2 \alpha \cos^2 \alpha = \frac{1}{4}$$

-۲
 درست است زیرا مقدار (۲) بزرگتر از منفی است

$$\frac{1}{(-\frac{\sqrt{3}}{2} \cdot \frac{\sqrt{3}}{2})} = \frac{1}{-\frac{3}{4}}$$

$$\frac{-9}{4 \cdot 2} = -\frac{9}{8} \checkmark$$



$$\cos \theta = \frac{a}{b} = 0.6 \Rightarrow a = 3$$

$$9 + h^2 = 16$$

$$h = 2$$

$$S = \frac{(x+1) \cdot 2}{2} = 2 \checkmark$$

(۲) (۴)

$$\tan(\pi/2) \tan(-\pi/2) - \sin(1.9) \cos(2.9) = K \cos^2(1.9)$$

(۲) (۵)

$$\tan(\frac{\pi}{2} + 1.9), \tan(1.9 - \pi) - \sin(1.9) \cos(\frac{\pi}{2} - 1.9)$$

$$K = -1 \checkmark$$

$$-\cot(1.9) \cdot \tan(1.9) + \sin(1.9) \times \sin(1.9)$$

$$-1 + \sin^2(1.9) = -\cos^2(1.9)$$

$$\cos(\pi/2) \times \sin(\frac{\pi}{2} - \pi) - \sqrt{2} \sin(\pi/2) \cos(\pi - \pi)$$

(۲) (۶)

$$+ \frac{\pi}{2} \times \cos(\pi) + \cos(\pi) = \frac{d}{v} \cos(\pi v)$$

$$\frac{d}{v} \cos(\pi v)$$

$$\frac{1/\cos(\pi v)}{\cos(\pi v)} = \frac{1}{\cos^2(\pi v)}$$

$$\frac{d}{v} \cos(\pi v) / \cos(\pi v) = \frac{d}{v} \checkmark$$

$$f(a) = \sqrt{y} \cos^y(\frac{a}{\sqrt{y}}) \cdot \cos^y(\frac{a}{\sqrt{y}}) \cos^y(\frac{a}{\sqrt{y}}) \cos^y(\frac{a}{\sqrt{y}})$$

$$\Lambda(1 + \cos(\frac{a}{\sqrt{y}}) \cdot \cos^y(\frac{a}{\sqrt{y}}) \cdot \cos^y(\frac{a}{\sqrt{y}}) \cdot \cos^y(\frac{a}{\sqrt{y}})) = \Lambda(1 + \cos(\frac{a}{\sqrt{y}})) \cdot \cos^y(\frac{a}{\sqrt{y}}) \cdot \cos^y(\frac{a}{\sqrt{y}}) \cdot \cos^y(\frac{a}{\sqrt{y}})$$

$$\propto \frac{\sqrt{y}}{y} \propto \frac{\sqrt{y}}{y} \propto \frac{1}{\sqrt{y}} \propto \frac{1}{\sqrt{y}}$$

$$\frac{\sqrt{y} \sqrt{y}}{y} \checkmark$$

(2)

$$\frac{1 - \sin(a)}{1 + \sin(a)} = f$$

$$f + f \sin(a) = 1 - \sin(a)$$

$$f \sin(a) = -f$$

$$\sin(a) = -\frac{f}{a}$$

$$\sin^2 + \cos^2 = 1$$

$$\frac{9}{10} + \frac{16}{10} = 1$$

$$\cos(a) = \frac{f}{a}$$

$$\tan\left(\frac{a}{\sqrt{y}}\right) = \frac{\sin(a)}{1 + \cos(a)} = \frac{-\frac{f}{a}}{\frac{1}{a}} = -f \checkmark$$

(2) (1)

$$\frac{\sin(\theta)}{1 - \cos(\theta)} + \frac{1 + \cos(\theta)}{\sin(\theta)} = \frac{\sqrt{y} \sin(\frac{\theta}{\sqrt{y}}) \cos(\frac{\theta}{\sqrt{y}})}{\sqrt{y} \sin^2(\frac{\theta}{\sqrt{y}})} + \frac{\sqrt{y} \cos^2(\frac{\theta}{\sqrt{y}})}{\sqrt{y} \sin(\frac{\theta}{\sqrt{y}}) \cos(\frac{\theta}{\sqrt{y}})} = \frac{\sqrt{y} \cos(\frac{\theta}{\sqrt{y}})}{\sqrt{y} \sin(\frac{\theta}{\sqrt{y}})} = \sqrt{y} \cot\left(\frac{\theta}{\sqrt{y}}\right)$$

$$\Rightarrow K = \sqrt{y} \checkmark$$

(2) (9)

$$\sin(a) = \frac{\sqrt{y}}{1}$$

$$\sin^2 a + \cos^2 a = 1$$

$$\frac{1}{1} + \frac{y}{1}$$

$$\frac{-\sqrt{y}}{1} = \frac{\sqrt{y}}{1}$$

$$\cos\left(\frac{11\pi}{f} + \alpha\right) = \cos\left(\frac{11\pi}{f} + \alpha\right) = \cos\left(\frac{11\pi}{f}\right) \cos(\alpha) - \sin\left(\frac{11\pi}{f}\right) \sin(\alpha)$$

$$+\frac{\sqrt{y}}{1} + \frac{\sqrt{y}}{1} = \frac{\sqrt{y}}{1} + \frac{\sqrt{y}}{1}$$

$$\frac{\sqrt{y}}{1} = \frac{1}{1} \cdot \frac{y}{1} \checkmark$$

(2) (1)