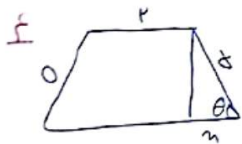


$\perp \cot \alpha = \frac{\cos \alpha}{|\sin \alpha|} \rightarrow \sin \alpha > 0 \text{ (1)}$
 $\frac{1}{|\cos \alpha|} - \frac{\sin \alpha}{\cos \alpha} = \frac{1 - \sin \alpha}{|\cos \alpha|} \rightarrow \cos \alpha > 0 \text{ (2)}$

(1) \cap (2) \rightarrow تجیه اول

$\frac{1}{r} < \sin \alpha \leq 1 \rightarrow \frac{1}{r} < \frac{r-1}{r} \leq 1 \rightarrow m \in (-1, 5]$

$\tan^2 + 2 \tan + 1 = 0 \rightarrow \tan = \frac{-2 \pm \sqrt{4}}{2} = \frac{-2 \pm 2}{2} \rightarrow \tan = 0 \rightarrow \text{CQ}$



$\cos \alpha = 0.4 \rightarrow \frac{n}{r} = 0.4 \rightarrow n = 2$

$\frac{1}{r} \times f \times (10) = 20$

$\tan\left(\frac{3\pi}{4} + 18\right) \tan(-\pi + 18) - \sin(2\pi + 18) \cos\left(\frac{3\pi}{4} - 18\right)$

$(-\cot 18) \times (+\tan 18) - (-\sin 18) \times (-\sin 18) = -1 - \sin^2 18$

$\tan(\pi + 18) \tan(18 - \pi) - \sin(\pi + \pi + k) \cos(\pi - 18)$

$-\cot 18 \times \tan 18 - \sin 18 \times \sin 18 = -\cot^2 18 \rightarrow k = -1$

$$9. \sqrt{r} \times \left(-\frac{\sqrt{r}}{r}\right) \times \sin\left(\frac{r\pi}{r} - rV\right) - \sqrt{r} \times \frac{\sqrt{r}}{r} \times \cos(2\pi - rV)$$

$$\frac{r}{r} \cos(rV) + \frac{r}{r} \cos(rV) \rightarrow \boxed{\frac{0}{r}}$$

$$10. v) \neq \left(\frac{\pi}{14}\right) = 14 \operatorname{Cot}^r\left(\frac{\pi}{14}\right) \operatorname{Cot}^r\left(\frac{\pi}{4}\right) \operatorname{Cot}^r\left(\frac{\pi}{r}\right) \operatorname{Cot}^r\left(\frac{r\pi}{r}\right)$$

$$\operatorname{Cot}^r\left(\frac{\pi}{14}\right) = \frac{1 + \operatorname{Cot}\left(\frac{\pi}{4}\right)}{r} = \frac{r + \sqrt{r}}{r}$$

$$14 \left(\frac{r + \sqrt{r}}{r}\right) \times \frac{r}{r} \times \frac{1}{r} \times \frac{1}{r} = \frac{r(r + \sqrt{r})}{14}$$

$$11. \frac{1 - \sin m}{1 + \sin m} = f \rightarrow 1 - \sin m = f + f \sin m \rightarrow \sin m = -\frac{f}{0}$$

$$\cos m = -\frac{f}{0}$$

$$\tan \frac{\pi}{r} = \frac{\sin m}{1 + \cos m} \rightarrow \frac{-\frac{r}{0}}{\frac{1}{0}} = \boxed{-r}$$

$$12. \frac{\sin \theta}{1 - \cos \theta} = \frac{1 + \cos \theta}{\sin \theta} = \cot \frac{\theta}{r} \rightarrow \frac{\sin \theta}{1 - \cos \theta} + \frac{1 + \cos \theta}{\sin \theta} = r \cot \frac{\theta}{r} \rightarrow \boxed{r = r}$$

$$13. \cos\left(\frac{r\pi}{r} + \alpha\right) = \cos\left(\frac{r\pi}{r}\right) \cos \alpha - \sin\left(\frac{r\pi}{r}\right) \sin \alpha = \frac{-\sqrt{r}}{r} \times \frac{-\sqrt{r}}{10} - \frac{\sqrt{r}}{r} \times \frac{\sqrt{r}}{10} = \frac{r}{10} - \frac{r}{10} = \boxed{\frac{0}{10}}$$

$$14. \frac{\sin^r \alpha + \cos^r \alpha}{\sin \alpha \cos \alpha} = -r \rightarrow \sin \alpha \cos \alpha = \frac{-1}{r} = A$$

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

$$A^r = \sin^r \alpha + \cos^r \alpha + r \sin \alpha \cos \alpha = \frac{1}{r}$$

$$\rightarrow A \left| \begin{array}{l} \frac{1}{\sqrt{r}} \times \\ \frac{1}{\sqrt{r}} \checkmark \end{array} \right. \rightarrow \frac{-9}{r\sqrt{r}} = \dots, \sqrt{r}\sqrt{r}$$