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تلفیف شماره ١٨

باران قاسمی

Subject:

Year:

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$$1) \tan\left(r\pi - \frac{\pi}{r}\right) + \sin\left(r\pi - \frac{\pi}{r}\right) \times \cos\left(r\pi + \frac{\pi}{r}\right) \rightarrow -\tan\left(\frac{\pi}{r}\right) + (-\sin\frac{\pi}{r} \times -\cos\frac{\pi}{r}) = -1 + \frac{1}{r} = -\frac{1}{r} \quad (1)$$

$$-1 \tan\left(r\pi - \frac{\pi}{r}\right) \times \sin\left(r\pi - \frac{\pi}{r}\right) + \cos\left(r\pi + \frac{\pi}{r}\right) = (-\tan\left(\frac{\pi}{r}\right) \times -\sin\left(\frac{\pi}{r}\right)) - \cos\left(\frac{\pi}{r}\right) \Rightarrow \frac{1}{r} - \frac{1}{r} = 0$$

$$\div \sin \rightarrow \frac{r \cot \alpha - 1}{\cot \alpha + 1} = \frac{r \times r - 1}{r + 1} = \frac{r^2 - 1}{r + 1} = r/r \quad (2)$$

$$(r \cos \alpha)^r + \cos^r \alpha = 1 \rightarrow r \cos^r \alpha + \cos^r \alpha = 1 \quad \alpha \cos^r \alpha = 1 \quad \cos^r \alpha = \frac{1}{r} \quad \cos \alpha = \sqrt[r]{\frac{1}{r}} \quad (3)$$

$$1) 1 - \frac{r}{1} = \frac{9}{1} \rightarrow \frac{\sqrt{9}}{1} \rightarrow \frac{\sqrt{9}}{1} \quad \cos\left(\alpha + \frac{r\pi}{r}\right) = \cos \alpha \cos \frac{r\pi}{r} - \sin \alpha \sin \frac{r\pi}{r} \quad (4)$$

$$-\frac{\sqrt{9}}{1} \times \frac{\sqrt{9}}{1} - \frac{\sqrt{9}}{1} \times \frac{\sqrt{9}}{1} = \frac{r}{r}$$

$$2) \frac{1}{r} = r\pi + \frac{\pi}{r} \rightarrow -\sin\left(\frac{\pi}{r} + \alpha\right) \quad \sin \frac{\pi}{r} \cos \alpha + \cos \frac{\pi}{r} \sin \alpha \quad \frac{\sqrt{r}}{r} \times \frac{1}{\sqrt{r}} + \frac{\sqrt{r}}{r} \times \frac{1}{\sqrt{r}} = \frac{1}{r}$$

$$\sin\left(\frac{1}{r} + \alpha\right) = -\frac{r}{r}$$

$$\sin^r \alpha = 1 - \cos^r \alpha \rightarrow r(1 - \cos^r \alpha) + \cos^r \alpha = \frac{r}{r} \rightarrow \cos^r \alpha = \frac{r}{r} \quad 1 + \tan^r \alpha = \frac{1}{\cos^r \alpha} \rightarrow 1 + \tan^r \alpha = \frac{r}{r} \quad \tan^r \alpha = \frac{1}{r} \quad (5)$$

$$S = \frac{1}{r} \times r \times \sqrt{r} \times \sin \alpha = r/r \quad r \sqrt{r} \sin \alpha = r/r \quad \sin \alpha = \frac{r/r}{r \sqrt{r}} = \frac{\sqrt{r}}{r} \quad \left. \begin{array}{l} \alpha = r^\circ \\ \alpha = 18^\circ \end{array} \right\} \Rightarrow \frac{1}{r} = r/r \quad (6)$$

$$\left(\frac{1}{r} \times r \times r \times \sin \theta\right) \times r = r/r \quad r \times r \times \frac{1}{r} = r \times r = r/r \quad r = \sqrt{1/r} \quad p = (r \sqrt{1/r} + r \sqrt{1/r}) \times r = 1.0 \sqrt{1/r} \quad (7)$$

$$S_{ABC} = \frac{1}{r} \times r \times r \times \sin \hat{A} = \frac{r}{r} \times \sin \hat{A} = 1/r \times \sin \hat{A} \quad (8)$$

$$S_{ADE} = \frac{1}{r} \times r \times r \times \sin \hat{A} = 1/r \times \sin \hat{A} \quad 1/r \times \sin \hat{A} - 1/r \times \sin \hat{A} = 1/r \times \sin \hat{A} \quad r \sin \hat{A} = 1/r \times r$$

$$\sin \hat{A} = 1/r = \frac{1}{r} \quad \hat{A} = r^\circ \Rightarrow \tan r^\circ = \frac{\sqrt{r}}{r}$$

$$rBN = rNC \rightarrow BN = \frac{r}{r} NC \Rightarrow \frac{r}{r} NC + NC = \frac{r}{r} NC \quad S_{ABC} = \frac{1}{r} \times \frac{r}{r} NC \times AB \times \sin \hat{B} \quad (9)$$

$$\rightarrow r \left(\frac{1}{r} \times \frac{r}{r} NC \times MB \times \sin \hat{B} \right) \quad \frac{NC \times AB \times \sin \hat{B}}{BM + AM} = \frac{r}{r} NC \times MB \times \sin \hat{B} \quad \frac{AM}{r} = MB \quad \frac{BM}{AM} = \frac{r}{r}$$

Pasha

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$$\frac{|\sin \alpha|}{\cos \alpha} = -\frac{1}{\cot \alpha} \rightarrow \frac{|\sin \alpha|}{\cos \alpha} = -\frac{\sin \alpha}{\cos \alpha} \rightarrow \sin \alpha < 0$$

(1.

$$\frac{1}{\sqrt{\cos^2 \alpha}} = \tan \alpha = \frac{1 + \sin \alpha}{|\cos \alpha|} \rightarrow \tan \alpha = -\frac{\sin \alpha}{|\cos \alpha|}$$

$\sqrt{\cos^2 \alpha} \rightarrow |\cos \alpha|$

$$\cos \alpha > 0$$

$$\cos \alpha < 0$$

$$\tan \alpha = -\tan \alpha \times$$

$$\tan \alpha = \tan \alpha \checkmark$$

$$\rightarrow \cos \alpha < 0, \sin \alpha < 0 \rightarrow \text{pm}$$