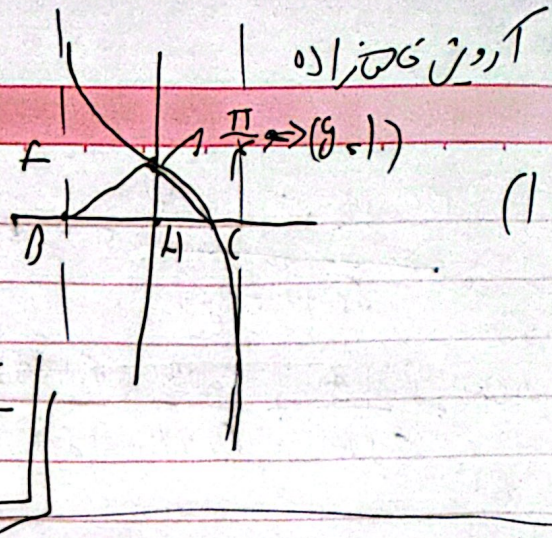


DATE :

SUBJECT :

$$y = \tan\left(-r\alpha, \frac{\pi}{r}\right)$$

$$AH \perp BC \Rightarrow \frac{\pi}{r} \Rightarrow \frac{1}{r} \alpha \frac{\pi}{r} \frac{\pi}{r}$$



$$r^2 (\sin \alpha) q - \frac{1}{r} \cos^2 \alpha$$

$$u, \frac{r}{p} \Rightarrow \frac{r}{q} - \frac{r}{p} \sin \alpha - \frac{1}{r} \cos^2 \alpha \Rightarrow \frac{1}{r} - \frac{(r \sin \alpha - \cos^2 \alpha)}{p}$$

$$\Rightarrow r \sin^2 \alpha + V \Rightarrow (r \sin \alpha - V) \Rightarrow \begin{cases} \sin \alpha \\ \sin \alpha \end{cases}$$

$$\Rightarrow 1 + \tan^2 \alpha = \frac{1}{\cos^2 \alpha}, \cos^2 \alpha = 1 - \sin^2 \alpha \Rightarrow \frac{1}{1} = \frac{1}{1 - \sin^2 \alpha}$$

$$1 + \tan^2 \alpha = \frac{1}{\cos^2 \alpha}$$

$$1 + \frac{\sin^2 \alpha}{\cos^2 \alpha} = \frac{1}{\cos^2 \alpha} \Rightarrow \frac{\sin^2 \alpha}{\cos^2 \alpha} = \frac{1}{\cos^2 \alpha} - 1$$

$$\tan^2 \alpha = \frac{1}{\cos^2 \alpha} - 1 \Rightarrow \tan^2 \alpha = \frac{1 - \cos^2 \alpha}{\cos^2 \alpha} \Rightarrow \tan^2 \alpha = \frac{\sin^2 \alpha}{\cos^2 \alpha}$$

$$\Rightarrow \cos^2 \alpha = \frac{1}{1 + \tan^2 \alpha} \Rightarrow \sin^2 \alpha = \frac{\tan^2 \alpha}{1 + \tan^2 \alpha}$$

$$\sin \alpha = \frac{\tan \alpha}{\sqrt{1 + \tan^2 \alpha}} = \frac{\tan \alpha}{\sec \alpha} = \sin \alpha$$

$$\frac{\sqrt{1 + \sinh^2}}{\sinh \cdot \cosh} = \frac{\sqrt{1 + \cosh^2}}{\sinh(r_1 + r_2) + \sinh(r_1 - r_2)}$$

(V) لم

جاب سوال

$$\Rightarrow \frac{\sqrt{r} \cosh r}{r \sinh^2 \cosh r}$$

باز سوال

$$\frac{\sqrt{r}}{r \sinh^2 \cosh r} = \sqrt{r}$$

$$\sinh^2 u + 1 - \sinh^2 u = \frac{r}{0} \Rightarrow \sinh^2 u - \sinh^2 u = -\frac{1}{0} \quad (r)$$

$$\sinh^2 u (\sinh^2 u - 1) = \frac{1}{0} \Rightarrow \sinh^2 u \cosh^2 u = \frac{1}{0}$$

$$(\cosh^2 u + \sinh^2 u) + (\sinh^2 u / \cosh^2 u) = 1 - r \sinh^2 \cosh^2 u + 1 = \frac{r}{0} \Rightarrow \frac{1}{0}$$

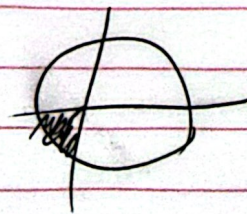
$$\left[\cosh^2 u + \sinh^2 u = \frac{r}{0} \right]$$

$$\frac{r \sinh^2 u + \sinh^2 u \cosh^2 u}{r \sinh^2 u} = \frac{\sinh^2 u (r + \cosh^2 u)}{r \sinh^2 u} = \frac{r + \cosh^2 u}{r} \quad (1)$$

$$\Rightarrow \sinh^2 u < 0 \quad \sinh^2 u < 0$$

$$\frac{\sinh^2 u - 1}{\cosh^2 u} > 0 \Rightarrow -\frac{\cosh^2 u}{\cosh^2 u} > 0, \cosh^2 u < 0 \quad (2)$$

(1), (2) → علامت



$$(1 - r \sinh^2 \rho) (r \cosh^2 \rho - 1) \left(\frac{1 - \tanh^2 \rho}{1 + \tanh^2 \rho} \right)$$

(1)

$$\rightarrow \cosh \rho_1 \cosh \rho_2 \cosh \rho_3 \sinh \rho_1 \cosh \rho_1 \cosh \rho_2 \cosh \rho_3$$

$$= \frac{1}{\Lambda} \frac{\sinh \Lambda}{\sinh 1} \cdot \frac{\cosh 1}{\Lambda \sinh 1} \cdot \frac{\cosh 1}{\Lambda}$$

(9) [این دو با هم]

$$\sinh a + r \cosh a \sinh \rho \Rightarrow \sinh a + r \cosh a$$

$$\Rightarrow \sinh^2 a + r^2 \cosh^2 a + 9 \cosh^2 a \Rightarrow 1 \cosh^2 a - 1 r^2 \cosh^2 a + r^2$$

$$1 \cosh^2 a - 1 r^2 \cosh^2 a - d s \Lambda \Rightarrow d \cosh^2 a - 1 r^2 \cosh^2 a - \Lambda$$

$$\cosh^2 \frac{A}{r} \cdot \frac{1 + \cosh A}{r} \cdot \frac{1 - \cosh(B+C)}{r} \cdot \frac{A + B + C \sin \pi}{A + \pi - (B+C)}$$

(1)

$$1 - \cosh(B+C) \sinh B \sinh C \Rightarrow \sinh B \sinh C + \cosh B \cosh C$$

$$\cosh B \cosh C - \sinh B \sinh C \Rightarrow \cosh(B-C)$$

$$B = C \Rightarrow A = \pi$$

$$B, C \in \mathbb{N}$$

SUBJECT:

DATE:

12/06/2021

$$\frac{P \cosh u + P \sinh u}{\sinh u \cosh u} = 0 \Rightarrow P \cosh u = -\frac{P}{\sinh u} \sinh u \quad (1)$$

$$\frac{\cosh u}{\cosh u} + \frac{\sinh u}{\sinh u} = \frac{\sinh u}{\sinh u \cosh u} + \frac{1}{\sinh u \cosh u} = \frac{1}{\sinh u \cosh u} = -\frac{P}{\sinh u}$$

$$P \sinh u = -P \cosh u \Rightarrow \sinh u = -\cosh u \Rightarrow \sinh u = -\cosh u$$

$$\Rightarrow \sinh u = -\frac{P}{\sinh u} \Rightarrow \sinh^2 u = -\frac{P}{\sinh u} \Rightarrow \sinh^2 u = -\frac{P}{\sinh u} \Rightarrow \sinh^2 u = -\frac{P}{\sinh u}$$

