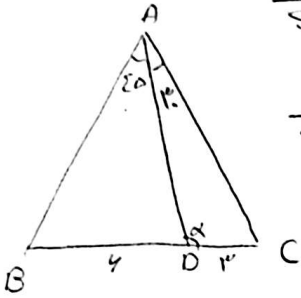


①

⑤

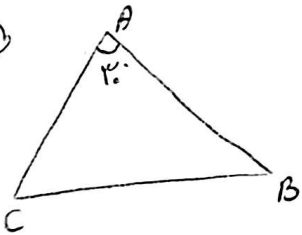


$$\left. \begin{aligned} \frac{BD}{\sin A_1} &= \frac{AD}{\sin B} \rightarrow \frac{4}{\sqrt{r}} \sin B = AD \\ \frac{CD}{\sin A_2} &= \frac{AD}{\sin C} \rightarrow 4 \sin C = AD \end{aligned} \right\} \Rightarrow 4 \sin C = \frac{4}{\sqrt{r}} \sin B$$

$$\rightarrow \boxed{\sin C = \frac{\sin B}{\sqrt{r}}}$$

⑥

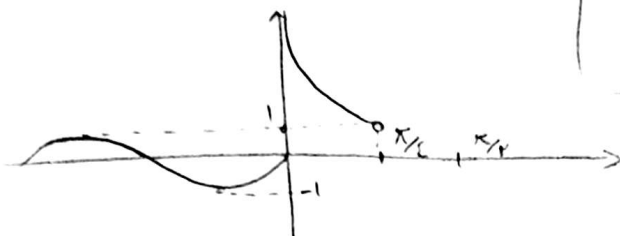
⑦



⑧ $\rightarrow r \cos^2 \alpha - \cos^2 \alpha - \sin^2 \alpha$

9

v)



$$Rf = \mathbb{R}$$

1)

$$T = \frac{\Delta \pi}{1} - \frac{\pi}{1} = \frac{\Sigma \pi}{1} = \frac{r \pi}{\Delta} \rightarrow \frac{r \pi}{\Delta} = \frac{r \pi}{|f|} \quad |e| = \frac{\Delta}{\Sigma} \rightarrow C = \frac{\Delta}{\Sigma}$$

$$f(x) = a + \frac{b}{r} \sin(r\alpha) \cos(r\alpha) \rightarrow f(x) = \frac{a}{r} + \frac{b}{\Sigma} \sin(f\alpha)$$

$$a = \frac{\max + \min}{r} \quad a = \frac{\Sigma}{r} \cdot r \quad \frac{b}{\Sigma} = r \rightarrow \boxed{b = \Lambda}$$

$$\Rightarrow \frac{\frac{\Delta}{\Sigma} \times \pi^{\Sigma}}{r} = \textcircled{\Delta}$$

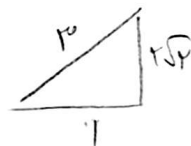
$$\textcircled{9} \quad C = \frac{\max + \min}{r} = \frac{-\Sigma + r}{r} = \textcircled{-1} \quad a = \frac{\max - \min}{r} \rightarrow a = \frac{r + \Sigma}{r} = \textcircled{-r}$$

$$T = \pi \rightarrow \frac{r \pi}{|b|} = \pi \rightarrow |b| = r \rightarrow b = \pm r \rightarrow \text{نقطه } \cos \text{ است مثبت}$$

$$f(x) = -r \cos r\alpha - 1 \rightarrow -r \cos r\alpha - 1 = 0 \rightarrow \cos r\alpha = \frac{-1}{r} \rightarrow \sin r\alpha =$$

$$|\tan r\alpha| = \left| \frac{\frac{r\sqrt{r}}{r}}{\frac{-1}{r}} \right| = \boxed{r\sqrt{r}}$$

$$\hookrightarrow \frac{r\sqrt{r}}{r}$$



1c)

$$\frac{-r \Sigma / \Delta}{\Sigma} \mid \frac{r}{-1 / \Delta} \rightarrow \frac{-11 / \Delta}{9} \mid \frac{r}{-r / \Lambda}$$

$$\boxed{-1 / 1} \rightarrow y = r x + r \rightarrow x = -1 \quad y = -r + r = \textcircled{1 / \Lambda}$$