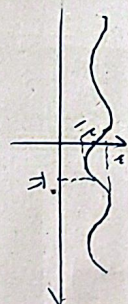


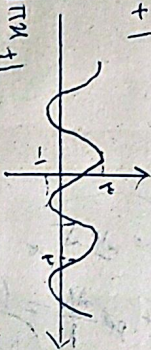
الف) $\sin \alpha + r$



$$T = \frac{r\pi}{r} = \pi$$

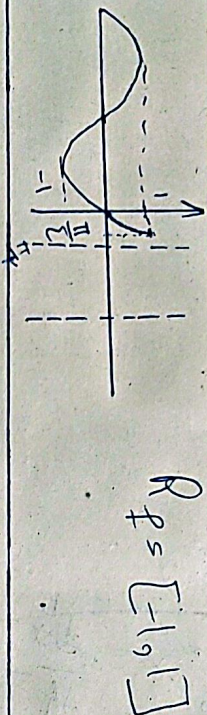
4

ب) $r \cos \left(\pi \alpha + \frac{\pi}{r} \right) + 1$



$$T = \frac{r\pi}{\pi} = r$$

5



$a + b \sin \alpha \leq r$

$\frac{r\pi}{r} = \frac{\pi}{1} \rightarrow \frac{1}{r} = \frac{1}{1} \rightarrow \frac{r}{1} = r$

$a + \frac{b}{r} \leq r$

$a - \frac{b}{r} \leq 0$

$a \leq r$

$\left| \frac{b}{r} \right| \leq r - b = 1 \rightarrow \frac{r}{r} = 1$

$a - \frac{b}{r} \leq 0$

6

$|a| + c = r$

$-|a| + c = -r$

$|a| = r$

$r \cos \alpha = 1$

$r \cos \alpha = 1 \rightarrow r \cos \alpha = 1 \rightarrow \cos \alpha = \frac{1}{r}$

$r \cos \alpha = 1 \rightarrow r \cos \alpha = 1 \rightarrow \cos \alpha = \frac{1}{r}$

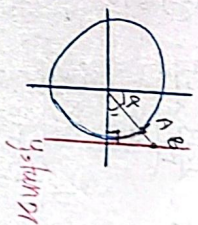
7

$r \cos \alpha = 1$

$r \cos \alpha = 1 \rightarrow r \cos \alpha = 1 \rightarrow \cos \alpha = \frac{1}{r}$

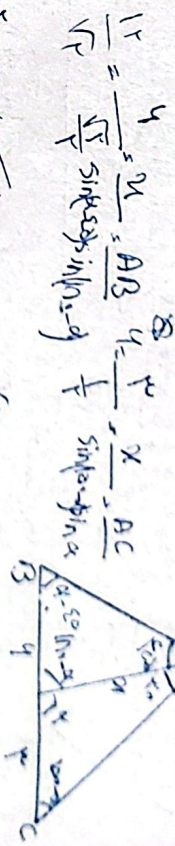
$r \cos \alpha = 1 \rightarrow r \cos \alpha = 1 \rightarrow \cos \alpha = \frac{1}{r}$

8



9

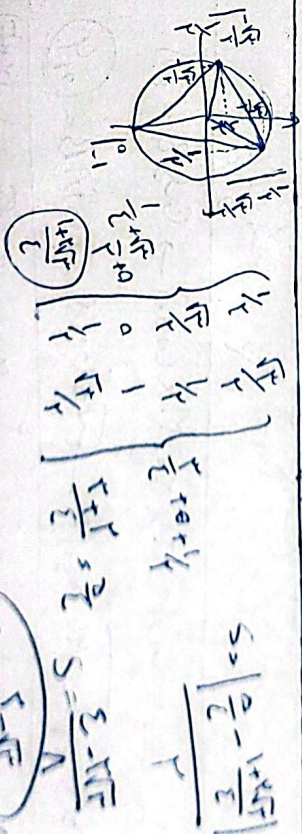
$r \cos \alpha = 1$



$\frac{1}{r} \sin \alpha = \frac{1}{r} \sin \alpha$

$\frac{1}{r} \sin \alpha = \frac{1}{r} \sin \alpha$

$\frac{1}{r} \sin \alpha = \frac{1}{r} \sin \alpha$



$s = \frac{r - \sqrt{r^2 - 1}}{2}$

$\log r \log r \times \frac{1}{r} \times \frac{1}{r} \rightarrow \log r \times \log r \times \frac{1}{r} = \frac{1}{r}$

$r \cos \alpha = 1$

$r \cos \alpha = 1 \rightarrow r \cos \alpha = 1 \rightarrow \cos \alpha = \frac{1}{r}$

$r \cos \alpha = 1$

$r \cos \alpha = 1 \rightarrow r \cos \alpha = 1 \rightarrow \cos \alpha = \frac{1}{r}$

$r \cos \alpha = 1$

$r \cos \alpha = 1 \rightarrow r \cos \alpha = 1 \rightarrow \cos \alpha = \frac{1}{r}$