

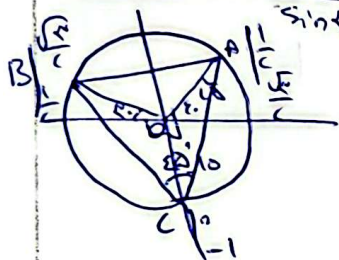
$$\frac{AB}{AC}$$

$$\sin \alpha = \sin (180^\circ - \alpha)$$

$$\frac{h}{\sin \alpha} = \frac{AB}{\sin (180^\circ - \alpha)} \Rightarrow \frac{h \sin \alpha}{\sin \alpha} = AB$$

$$\frac{h}{\sin \alpha} = \frac{AC}{\sin \alpha} \Rightarrow AC = \frac{h \sin \alpha}{\sin \alpha}$$

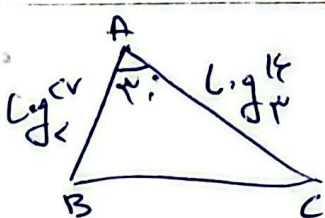
$$\frac{AB}{AC} = \frac{\frac{h \sin \alpha}{\sin \alpha}}{\frac{h \sin \alpha}{\sin \alpha}} = \frac{1}{1} = 1 \quad \boxed{2 \sqrt{c}}$$



$$AB =$$

$$AC =$$

$$BC =$$



$$S = \frac{1}{c} \ln \frac{1}{\sin \alpha} = 1$$

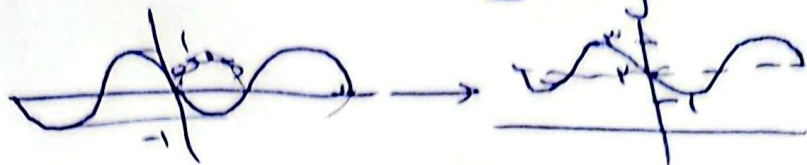
$$h = c \sin \alpha$$

$$\frac{h}{c} = \sin \alpha \Rightarrow \frac{h}{c} = \sin \alpha \Rightarrow \frac{h}{c} = \sin \alpha$$

$$(\cos \alpha + \sin \alpha) \cos \alpha = 1 \Rightarrow \sin \alpha = 0$$

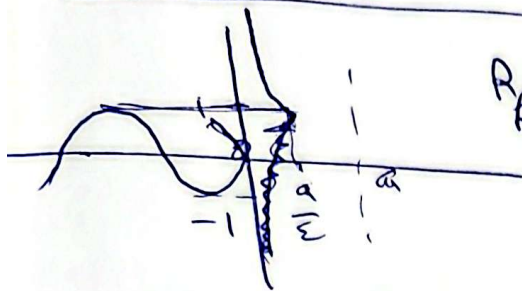
$$\text{الف) } -Y \sin \alpha \cos \alpha \tau \rightarrow -\sin \alpha \tau + Y \quad [-a, a]$$

$$T = \frac{Y}{\omega} \tau = a$$



$$\Rightarrow Y \cos(\alpha - \frac{1}{2}) \omega \tau + 1 \rightarrow Y \cos(\alpha - \frac{1}{2}) \omega \tau = -Y \sin \alpha \tau + 1$$

$$T = \frac{Y}{\omega} \tau \quad [-a, Y a]$$



$$R_p = [-1, Y a]$$

①

$$a + b \sin \alpha \cos \alpha = \frac{b}{\epsilon} \sin(\epsilon \alpha) + a$$

②

$$\frac{b}{\epsilon} \frac{y_{\max} - y_{\min}}{Y} = \frac{\epsilon}{\epsilon} \tau = \frac{b}{\epsilon} \Rightarrow b = \epsilon \tau$$

$$a = \frac{y_{\max} + y_{\min}}{2} \epsilon \tau \Rightarrow a = \epsilon \tau \quad \frac{b}{a} = \frac{Y}{\epsilon \tau} \quad \text{③}$$

$$\frac{Y}{a} \geq |b| \Rightarrow |b| \leq Y$$

$$\cos \alpha = 1 \quad \tan \alpha = ?$$

④

$$a = \frac{Y - (-Y)}{2} = Y$$

$$c = \frac{Y - \epsilon}{\epsilon} = -1$$

$$f(-\epsilon/\omega) \rightarrow f(-\epsilon/\omega + 1/\omega) = f(-1/\omega + 1/\omega) = f(1/\omega)$$

$$y = a \cos \tau \rightarrow a = \frac{1}{\epsilon} \quad y = \frac{1}{\epsilon} \cos \tau = \frac{1}{\epsilon}$$