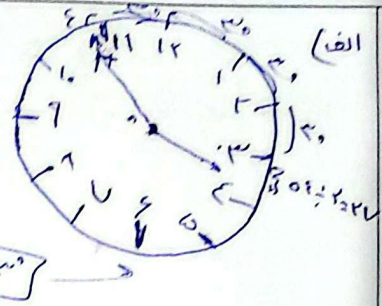


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(ب) $|(\Delta, 0) \times (0, \Delta)| = 20V$

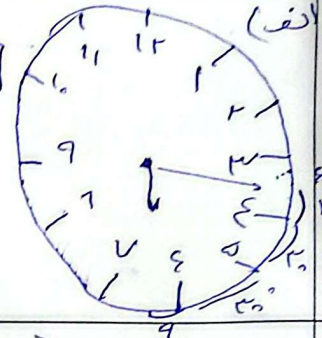
$\rightarrow 20 = 20V = 10 \times 2$

$\rightarrow 10 \times 2 = 20V = 10 \times 2$



(ب) $|10, 10 \times 1 - 10 \times 1| = 10$

$10, 10, 10, 10 = 10$



$\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

$\rightarrow \frac{1}{2} = \frac{1}{2} + \frac{1}{2} = \frac{1}{2} + \frac{1}{2}$

$S = \frac{1}{2} \times R^2 = \frac{1}{2} \times 1 = \frac{1}{2}$

$BC = \sqrt{1^2 + 1^2 - 2 \times 1 \times 1 \times \cos 90^\circ}$
 $= \sqrt{2} = 1$

$P = 1 + 1 + 1 = 3$

$S_{ABC} = \frac{1}{2} AB AC \sin 90^\circ$
 $\frac{1}{2} \times 1 \times 1 \times \frac{1}{2} = \frac{1}{4}$

$B + C = 180^\circ$

$A = 180^\circ - 180^\circ = 0^\circ$

$\frac{BC}{\sin A} = \frac{AC}{\sin B} = \frac{AB}{\sin C}$

$\rightarrow C = 180^\circ - 90^\circ = 90^\circ$

$\frac{1}{2} = \frac{1}{2} \times \frac{1}{2} \Rightarrow \sin B = \frac{1}{2}$

$\frac{100}{180} = \frac{a}{12}$

$\frac{100}{180} = \frac{a}{12} \Rightarrow a = \frac{100 \times 12}{180} = \frac{40}{3}$

$$\begin{aligned}\tan(\pi - \alpha) &= -\tan \alpha \\ \tan(\pi + \alpha) &= \tan \alpha \\ \tan(\pi - \alpha) &= -\tan \alpha \\ \tan(\pi + \alpha) &= \tan \alpha\end{aligned}$$

$$\frac{-\tan \alpha + \tan \alpha}{-\tan \alpha - \tan \alpha} = \boxed{-1}$$

$$\frac{\tan(\pi - \alpha) + \tan(\pi + \alpha)}{\tan(\pi - \alpha) - \tan(\pi + \alpha)}$$

$$\frac{\tan \frac{\pi}{2} - \alpha + \tan \frac{\pi}{2} + \alpha}{\tan \frac{\pi}{2} - \alpha - \tan \frac{\pi}{2} + \alpha} = \frac{\cot \alpha - \cot \alpha}{-\cot \alpha - \cot \alpha} = \frac{\cot \alpha}{-2\cot \alpha} = \boxed{-\frac{1}{2}}$$

$$\tan \frac{\pi}{2} - \alpha = \cot \alpha \rightarrow \cot \frac{\pi}{2} - \alpha = \frac{1}{\tan \alpha}$$

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

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

$$1 - \cos^2 \alpha - \cos^2 \alpha = \frac{1}{r} \rightarrow 1 - 2\cos^2 \alpha = \frac{1}{r} \rightarrow \cos^2 \alpha = \frac{r-1}{2}$$

$$\tan^2 \alpha = \frac{1}{\cos^2 \alpha} = \frac{2}{r-1} \rightarrow \tan \alpha = \sqrt{\frac{2}{r-1}}$$

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

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

$$\cos(\pi, \delta) = \cos\left(\frac{\pi}{r}\right) = \sqrt{1 + \frac{\delta}{r}} = \sqrt{\frac{r + \delta}{r}}$$

$$\sin\left(\frac{\pi}{2}, \delta\right) = \cos(\pi, \delta) = \sqrt{\frac{r + \delta}{r}}$$

$$\cos \frac{\pi}{2} = \frac{1 + \cos \delta}{r}$$