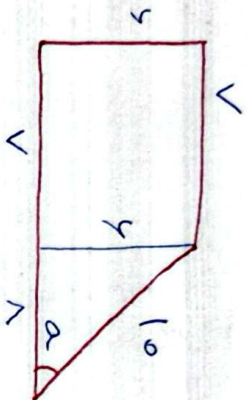


$$\tan \theta = a \rightarrow \sin = a \cos$$

$$\frac{1 \times \cos \theta - \cos \theta}{a \cos \theta - \cos \theta} = (12)$$

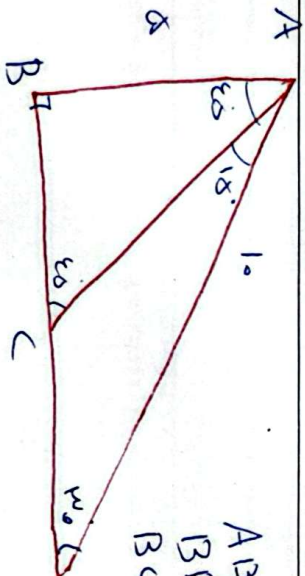
(12) ✓

$$(\sin \alpha = \frac{1}{10})$$



$$10 + V + y + V + N = 10N$$

(12) ✓



$$AB = a \rightarrow \sin \epsilon = \frac{1}{10}$$

$$BD = a\sqrt{x} \rightarrow \cos \epsilon = \frac{\sqrt{x}}{10}$$

$$BC = a \rightarrow \tan \epsilon = 1$$

$$[CD = a(\sqrt{x}-1)]$$

(12) ✓

الف) ناحیه ۳

ب) ناحیه ۲ ✓

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$$\tan \alpha = \frac{1}{x} \rightarrow \sin = \cos$$

$$(x_m)^x + m^x = a^x + m^x = 10^x = 1 \rightarrow m = \frac{1}{\sqrt{10}}$$

$$\sin m \rightarrow \frac{1}{\sqrt{10}}$$

$$\cos m \rightarrow \frac{1}{\sqrt{10}}$$

$$(\sin m = -\frac{1}{\sqrt{10}})$$

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الف) $\frac{27}{180} = \frac{Rad}{\pi} \rightarrow Rad = \frac{27\pi}{180}$

ب) $\frac{125}{180} \rightarrow rad = \frac{125\pi}{180}$

2) $\frac{4\pi}{18} rad = \frac{\pi}{180} \rightarrow n' = 180$

1- $10a = \frac{10}{r} a$

$\frac{a\pi}{\pi} = \frac{n'}{180} \rightarrow 180 \times \frac{a}{\pi} = a \frac{\pi}{r} = n'$

$\frac{145a}{9} = \frac{n'}{180} \rightarrow \frac{145}{9} a \times \pi = n' = \frac{145}{9} a$

الف) $\cos y_0 \cos y_0 - \sin y_0 \sin y_0 - \tan \epsilon \delta + r \cot \epsilon \delta = -1 + r = 1$

ب) $\tan^r y_0 + \tan^r \epsilon \delta + \tan^r y_0 = \frac{1}{r} + 1 + r = \left(\frac{1}{r} - \frac{1}{\sqrt{r}} \right) = \left(\frac{1}{\sqrt{r}} \right) = \frac{14\sqrt{r}}{r}$

$\cot y_0 - \cot y_0 = \frac{r-1}{\sqrt{r}} = \frac{r}{\sqrt{r}}$

$-\sin y_0 \cos y_0 + \cos y_0 \sin y_0 = \sin^r \theta = \frac{1}{r}$

$r \tan^r y_0 (1 - \tan^r y_0) = \frac{r}{\sqrt{r}} \left(\frac{r}{r} \right) = \frac{r}{\sqrt{r}} = \frac{r}{\sqrt{r}} = \left(\frac{r}{\sqrt{r}} \right)$

$\tan \theta = \sqrt{r} \rightarrow \theta = \frac{\pi}{2}$