

زنگنه

$$b) \frac{120}{110} \rightarrow \frac{Rad}{\pi} \Rightarrow \frac{120\pi}{110} = \frac{12\pi}{11}$$

$$2) \frac{\frac{f}{g}}{\frac{h}{i}} = \frac{D}{\frac{1}{n_0}} \Rightarrow \frac{V \cdot \frac{1}{n_0}}{g} = D = 1^\circ$$

$$D = 11,5 a^\circ \quad \frac{a\pi}{\lambda} = \frac{D}{11,5} = \frac{11,5 a^\circ}{\lambda} \Rightarrow D = 11,5 a^\circ \quad \textcircled{P} \checkmark$$

الف) $\left(\frac{1}{p} \times \frac{\sqrt{3}}{p}\right) - \left(\frac{\sqrt{3}}{p} \times \frac{1}{p}\right) - 1 + 2(1) = 1$ -٣

[illegible]

$$\frac{\left(\frac{\sqrt{r}}{p}\right) \left(1 - \left(\frac{\sqrt{r}}{p}\right)^2\right)^{\frac{1}{2}}}{\left(1 - \left(\frac{\sqrt{r}}{p}\right)^2\right)^{\frac{1}{2}}} = \frac{\left(\frac{\sqrt{r}}{p}\right) \left(\frac{r}{p}\right)}{\frac{r}{p}} = \frac{\sqrt{r}}{p} = \sqrt{r} = \tan \theta$$

$\theta = 45^\circ$

$$\frac{90^\circ}{180^\circ} = \frac{\text{Rad}}{\pi} = \frac{90^\circ \cdot \pi}{180^\circ} = \pi$$

$$\tan \theta = \Delta \Rightarrow \frac{\sin \theta}{\cos \theta} = \Delta \Rightarrow \sin^2 \theta = \Delta \cos \theta$$

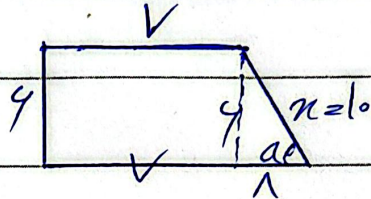
4

✓

$$\frac{(\Delta \cos \theta) - \cos \theta}{\Delta \cos \theta - \cos \theta} = \frac{1 \Delta \cos \theta - \cos \theta}{\cos \theta} = \frac{1 \cos \theta}{\cos \theta} = 1$$

$$\frac{y}{x} = \frac{y}{10} \Rightarrow x = 10 \rightarrow \text{وتر مثلث}$$

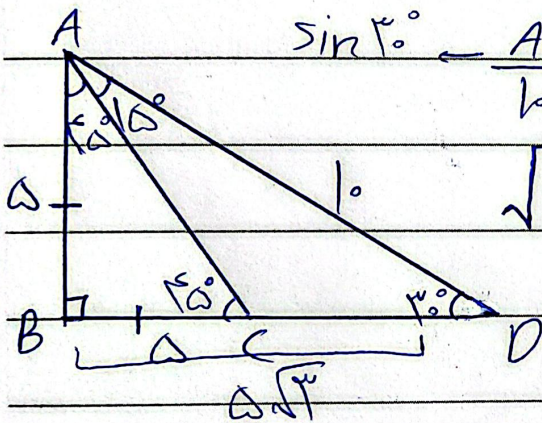
$$\sqrt{100 - 3y} = 1$$



-V

$$10 + 1\Delta + y + V = 31$$

✓



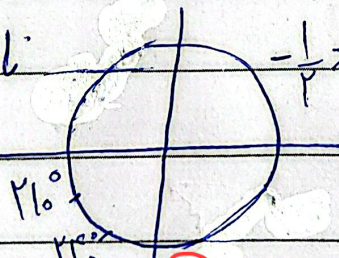
$$\sin 30^\circ = \frac{AB}{10} = \frac{1}{2} \Rightarrow AB = \Delta = BC \rightarrow 1\Delta$$

-A

$$\sqrt{100 - 2\Delta} = \Delta\sqrt{3} \quad CD = \Delta\sqrt{3} - \Delta$$

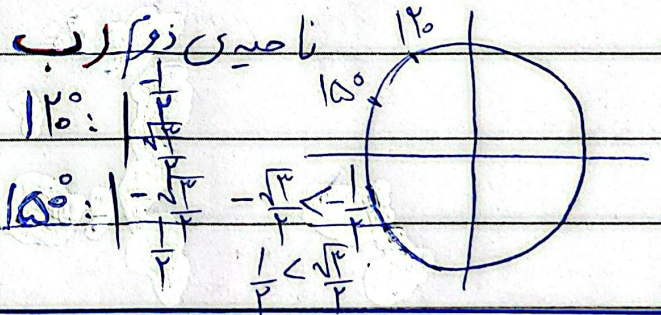
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الف) ناصبی



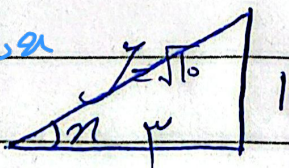
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ب) ناصبی



9

هناك قيمتان، سينيوس متساويت



1,8

$$\tan x = \frac{1}{3} \Rightarrow \frac{\sin x}{\cos x} = \frac{1}{3}$$

-10

$$y = \sqrt{(1)^2 + (3)^2} = \sqrt{10}$$

$$\frac{1}{\sqrt{10}} = \frac{\sqrt{10}}{10}$$