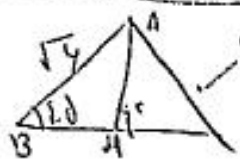
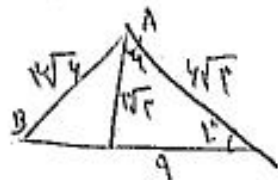


$$b) \frac{1 + r \frac{\sin \theta_{\text{ref}}}{\cos \theta_{\text{ref}}}}{\cos \theta_{\text{ref}} + \cos \theta_{\text{ref}}} = \frac{1 + r \frac{1}{\cos \theta_{\text{ref}}}}{\cos \theta_{\text{ref}} + \cos \theta_{\text{ref}}} = \frac{1}{\cos \theta_{\text{ref}}} \frac{1 + r}{1 + \cos \theta_{\text{ref}}}$$


$$\sqrt{4} \rightarrow AH \cdot \frac{\sqrt{4}}{1} = \sqrt{4} = 2$$

$$AH = \frac{1}{2} AC = 3 \text{ cm}$$

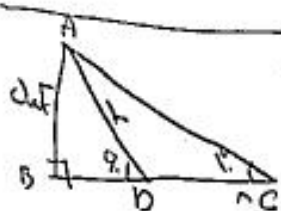
$$\rightarrow HC_2 \frac{\sqrt{10}}{r} \times \sqrt{r} \times \sqrt{r}$$



$$AC = CN \Rightarrow AC \cdot \frac{1}{\sqrt{2}} = CN \cdot \frac{1}{\sqrt{2}}$$

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

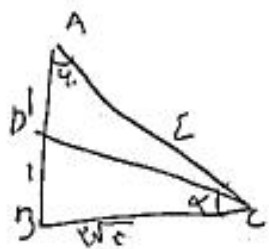
$$\sin 13^\circ \frac{2\sqrt{10}}{\sqrt{9}} \frac{2\sqrt{10}}{1} = \frac{13 \text{ KPa}}{13 \text{ KPa}} \quad \text{to } 13^\circ \text{ to } 13^\circ$$



$$\sin \theta = 2 \frac{\Delta \sqrt{r}}{AD} \cdot 2 \frac{\sqrt{r}}{r} \rightarrow AD \approx 2100$$

$B^{\wedge} 29^{\circ} \Rightarrow B \wedge D 26^{\circ}$ $ABC \quad \left. \begin{matrix} 29^{\circ} \\ 21^{\circ} \end{matrix} \right\} A 24^{\circ} \Rightarrow DAC 24^{\circ}$
 $PAC^{\Delta} \approx PDA^{\Delta}$

$PAC \approx PCA \Rightarrow Ab:ac \rightarrow \boxed{x_2 | p_2}$

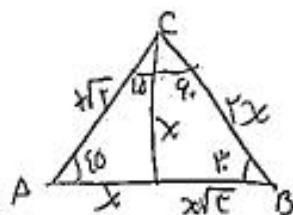


$$\Rightarrow C_1 = \frac{1}{\frac{1}{C_2} + \frac{1}{C_3}} = \frac{1}{\frac{1}{2} + \frac{1}{2}} = 1 \text{ F}$$

$$\Rightarrow \cot \alpha = \sqrt{e} \rightarrow \tan \alpha = \frac{1}{\sqrt{e}} \rightarrow \sin \alpha = \frac{1}{\sqrt{1+e}} \Rightarrow \sin \alpha = \frac{1}{\sqrt{1+e}}$$

$$\sqrt{\frac{14}{25}}$$

$$\sin A = \frac{a}{c} \Rightarrow \frac{a}{c} = \sin A \Rightarrow a = c \sin A$$



$$AB \sim \chi(L\sqrt{F})$$

$$AC \cdot 2\sqrt{r} \Rightarrow \frac{AB}{AC} = \frac{x(2\sqrt{r})}{2\sqrt{r}} = \frac{\sqrt{a}\sqrt{c}}{f}$$

$$\frac{S_{ABE}}{S_{BDC}} = \frac{\frac{1}{2} \times AC \times \sin \angle C}{\frac{1}{2} \times AC \times \sin \angle C} = \frac{S}{9}$$

$$\text{الف) } S_{\text{مجموع}} = 1 \times \frac{1}{4} \times 1 \times 2 \times \sin 110^\circ = 1 \times 1 \times \frac{\sqrt{3}}{4} \times 2 \times \frac{\sqrt{3}}{2}$$



$$K \frac{1}{F} K \frac{1}{F} \propto \sin 1\theta \quad \text{and} \quad K \frac{1}{F} K \frac{1}{F} \propto \sin 2\theta \xrightarrow{\sin 2\theta = 2 \sin \theta \cos \theta}$$

$$\text{Ex } \frac{1}{r} + \frac{1}{r} \sin \theta = 6 \sin \theta + 9\sqrt{r} + 4\sqrt{r}$$

$$y = ax + b$$

$$a = \frac{\Delta y}{\Delta x} = \tan \theta \quad \tan \theta = \frac{r}{z} \Rightarrow \frac{r}{z} = \frac{1}{\sqrt{0}}$$

$$\cos \theta = \frac{z}{\sqrt{0}}$$

$\theta \rightarrow \alpha \rightarrow \tan \theta = \frac{r}{z} \rightarrow \tan \theta = \frac{1}{\sqrt{0}} \rightarrow \cos \theta = \frac{z}{\sqrt{0}} \rightarrow \cos \theta = \frac{z}{\sqrt{0}}$
 $\Rightarrow \cos \theta = \frac{z}{\sqrt{0}}$
 $\cos \theta = \frac{r}{\sqrt{0}}$

$y = ax + b \Rightarrow y = \frac{r}{z}x + b \Rightarrow \left(\cos \frac{\theta}{r}\right) \Rightarrow b = \frac{r}{z}$
 $y = \frac{r}{z}x + b \Rightarrow y = x + \frac{b}{r} \Rightarrow 1 = \tan \alpha \Rightarrow \alpha = 45^\circ$

$$A_1 = 110 - (r_0 + \epsilon_0) = 90 \Rightarrow A_1 = 110 - 90 = 20$$

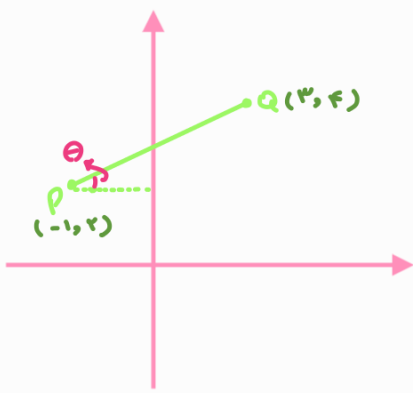
$$m = \frac{b}{r} \Rightarrow mb = \frac{b^2}{r}$$

$$f\left(\frac{\pi}{4}\right) = \cos\left(\pi + \frac{\pi}{4}\right) + \sin\left(\frac{\pi}{4} - \frac{\pi}{4}\right) = \cos\left(\frac{\pi}{4} + \frac{\pi}{4}\right)$$

$$\cos\left(\frac{\pi}{4}\right) - \cos\left(\frac{\pi}{4}\right) = \cos\left(\frac{\pi}{4}\right) + \cos\left(\frac{\pi}{4}\right) = \frac{\cos 180^\circ}{\sin 180^\circ} = \frac{\sqrt{r}}{r} = \sqrt{r}$$

$$\frac{\cos(x) - \sin(x)}{-\cos(x) + \sin(x)} = \frac{-(\sin x - \cos x)}{\sin x - \cos x} = -1$$

$$\frac{\sin\left(\frac{\pi}{4} + x\right) + \cos\left(\frac{\pi}{4} - x\right)}{\cos(\pi x - \sin(\pi x))}$$



$$m_{PQ} = \frac{r-r}{r-(-1)} = \frac{1}{r} = \tan \theta \rightarrow 1 + \tan^2 \theta = \frac{1}{\cos^2 \theta}$$

$$1 + \frac{1}{r^2} = \frac{1}{\cos^2 \theta} \rightarrow \cos^2 \theta = \frac{r^2}{r^2+1} \xrightarrow{\cos \theta > 0} \cos \theta = \frac{r}{\sqrt{r^2+1}} = \frac{r\sqrt{a}}{a}$$

✓

$$\underbrace{(\pi + \pi)}_{-\cos u} + \underbrace{\sin\left(\frac{\pi}{r} - u\right)}_{\cos u} - \tan\left(\frac{\pi\pi}{r} + u\right) = \cot u$$

$$\varphi(u) = \cot u \rightarrow \varphi\left(\frac{\omega\pi}{4}\right) = \cot\left(\frac{\omega\pi}{4}\right) = -\sqrt{3}$$

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