

نقطه مرکزی

الف $\sin 150^\circ + \sin\left(\frac{\sqrt{3}}{2} + 30^\circ\right) \left(\cos\left(\frac{\sqrt{3}}{2} + 45^\circ\right) \cos 45^\circ + \sin 45^\circ\right)$

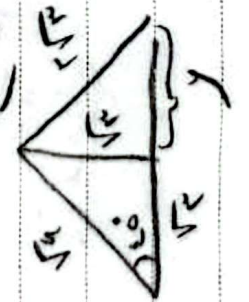
$\left(\frac{\sqrt{2}}{2} - \cos(30^\circ)\right) \left(+\sin\left(\frac{45^\circ}{\frac{\sqrt{2}}{2}}\right) - \cos 150^\circ\right) \frac{\sqrt{2}}{2}$

$\frac{2}{3} - \frac{3}{3} = -\frac{1}{3}$

ب) $\frac{1 + \frac{1}{\sqrt{2}}}{\frac{1}{\sqrt{2}}} + \frac{\frac{2}{\sqrt{2}} + \frac{1}{\sqrt{2}}}{\frac{1}{\sqrt{2}}} \cos 45^\circ + \cos\left(\frac{45^\circ}{\frac{1}{\sqrt{2}}}\right) \cos 45^\circ$

$\sin^2(30^\circ) + \cos^2(45^\circ)$

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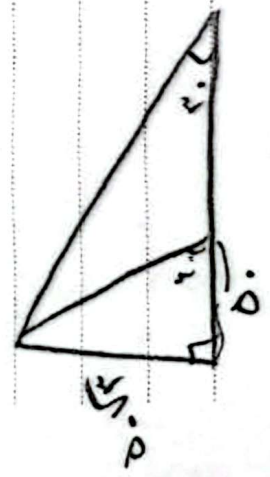
$\frac{\sqrt{2}}{2} = \frac{x}{\sqrt{4}} \quad x = \sqrt{2}$

$\sqrt{2} - \sqrt{2} = 0$

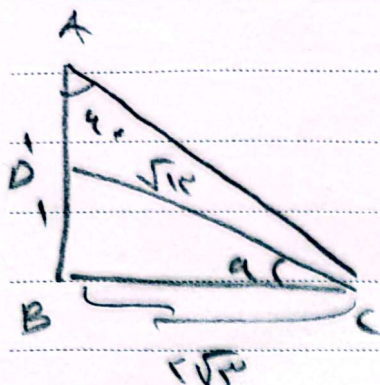


$\sin 45^\circ \frac{\sqrt{2}}{\frac{1}{\sqrt{2}}} + \frac{\sqrt{2}}{2} \cos 45^\circ$

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$\tan 45^\circ \cdot \sqrt{2} = 0 \cdot \sqrt{2} \quad \tan 45^\circ + \frac{1}{\sqrt{2}} = \frac{0 \cdot \sqrt{2}}{(0 + \sqrt{2})}$



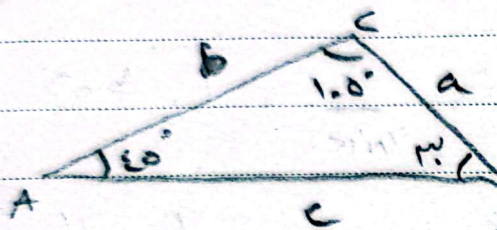
$$\cot 4 = \frac{1}{\sqrt{r}} = \frac{r}{x}$$

$$\tan \alpha = \frac{1}{r\sqrt{r}}$$

$$DC = 1 + 4r + 1r \rightarrow \sqrt{r}$$

$$\sin \alpha = \frac{1}{\sqrt{r}}$$

$$\frac{1}{r} \cot 4 + 1 = \frac{1}{\sin \alpha} \quad \text{or} \quad \frac{1}{\sin \alpha}$$



$$\frac{c}{b} = ?$$

$$\frac{c}{\sin(1.0)} = \frac{b}{\sin(17.6)}$$

$$\frac{c}{b} = \frac{\sin(1.0)}{\sin(17.6)} = \frac{\sqrt{2} \cdot \sqrt{r}}{1}$$

$$\sin(1.0) = \sin(4. + 1.0) = \sin 4 \cdot \cos 1.0 + \sin 1.0 \cdot \cos 4.$$

$$\frac{\sqrt{r}}{r} = \frac{\sqrt{r}}{r} + \frac{\sqrt{r}}{r} \cdot \frac{1}{r} = \frac{\sqrt{r} + \sqrt{r}}{r}$$

$$\frac{x}{r} = r \cdot \frac{1}{r} \cdot \sin 4$$

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$$\frac{x}{r}$$

$$1) \quad r \cdot \frac{1}{r} \cdot \sin(4. + 1.0) = 4\sqrt{r}$$

$$2) \quad \frac{1}{r} \cdot r \cdot \sin(4. + 1.0) = r\sqrt{r}$$

$$E = r \cdot a + b$$

$$\tan \theta = \frac{1}{r}$$

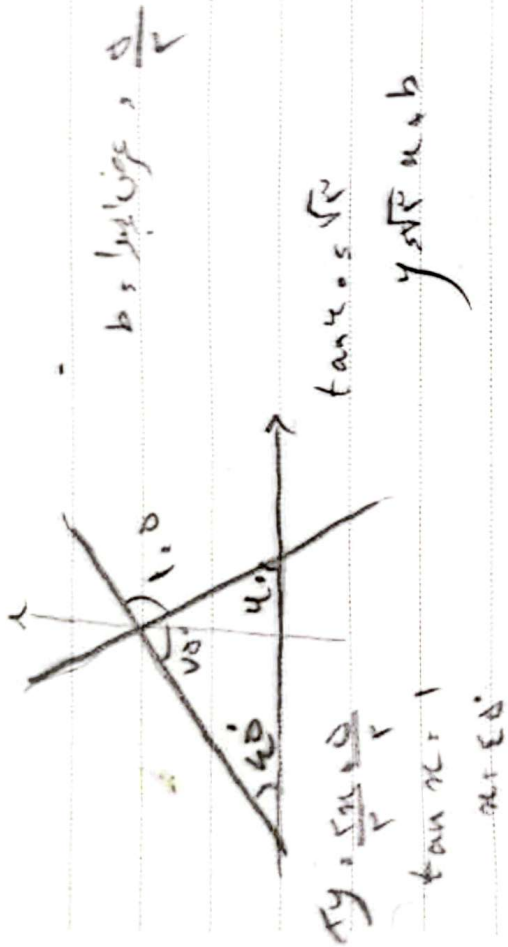
$$\frac{r \cdot a + b}{r \cdot \frac{1}{r}}$$

$$\tan^2 \theta + 1 = \frac{1}{\cos^2 \theta}$$

$$r \cdot \frac{1}{r}$$

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

$$\frac{1}{r} + 1 = \frac{1}{\cos^2 \theta} \quad \cos \theta = \frac{r}{\sqrt{r}}$$



$$m = \sqrt{r} \quad mb = \frac{\sqrt{r}}{r}$$

$$f(x) = -\cos(x) + \cos(x) + \cot(x)$$

$$f(x) = \cot x$$

$$f\left(\frac{\pi}{4}\right) = \cot\left(\frac{\pi}{4}\right) \quad \cot(45^\circ) = \frac{1}{1} = 1$$

$$+ \cos(x) - \sin(x)$$

$$= \cos(x) + \sin(x)$$

$$= \cos(x) + \sin(x)$$