

SUBJECT:

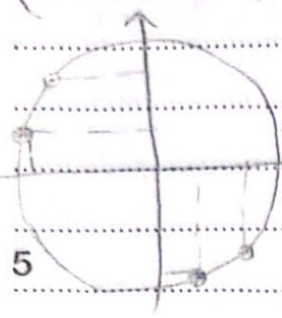
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شماره

$$(\sin 11^\circ + \sin 100^\circ) (\cos 11^\circ - \cos 100^\circ)$$

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$$\left. \begin{aligned} \frac{\sqrt{p}}{1} &= \sin 11^\circ = \cos 100^\circ \\ \frac{-\sqrt{p}}{1} &= \cos 11^\circ = \sin 100^\circ \end{aligned} \right\} \rightarrow$$

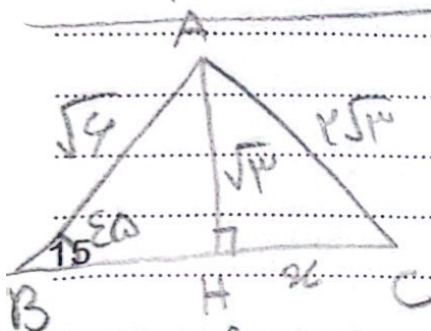
$$\frac{p}{\epsilon} - \frac{p}{\epsilon} = \frac{-1}{\epsilon}$$

$$1 + \mu \tan 11^\circ \rightarrow \frac{\mu}{9}$$

$$\epsilon \cos 11^\circ + \epsilon \cos 11^\circ$$



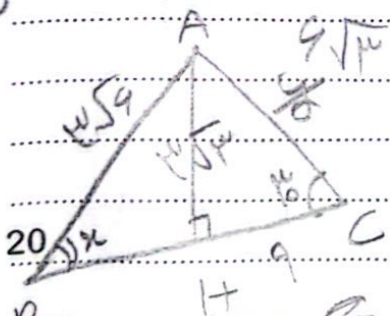
$$\frac{10 + 1}{\mu + 1} = \frac{p}{\epsilon} = \frac{1}{p}$$



$$AH = \frac{\sqrt{p}}{p} \times \sqrt{q} = \frac{\sqrt{pq}}{p} = \frac{p\sqrt{\mu}}{p} = \sqrt{\mu}$$

$$x^2 = (p\sqrt{\mu})^2 - (\sqrt{\mu})^2 = 1p - \mu = 9$$

$$x = \mu = AC$$



$$y = AC \times \cos(10^\circ) = 9 \rightarrow \frac{9}{\frac{\sqrt{p}}{p}} = \frac{11}{\sqrt{\mu}} =$$

$$\frac{11\sqrt{\mu}}{p} = 9\sqrt{\mu}$$

$$\sin x = \frac{\mu\sqrt{\mu}}{p\sqrt{q}} = \sqrt{\frac{\mu}{q}} = \sqrt{\frac{1}{p}} = \frac{1}{\sqrt{p}} = \frac{\sqrt{p}}{p}$$

$$x = \mu$$

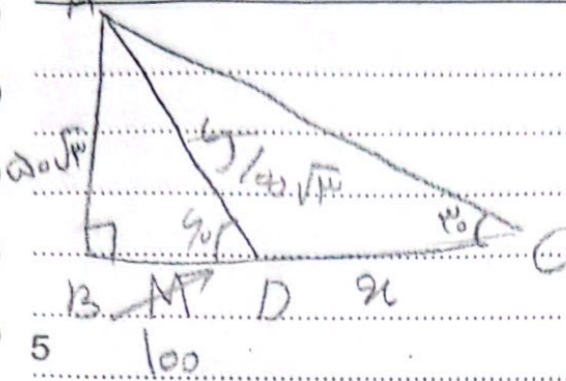
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SHAHAB

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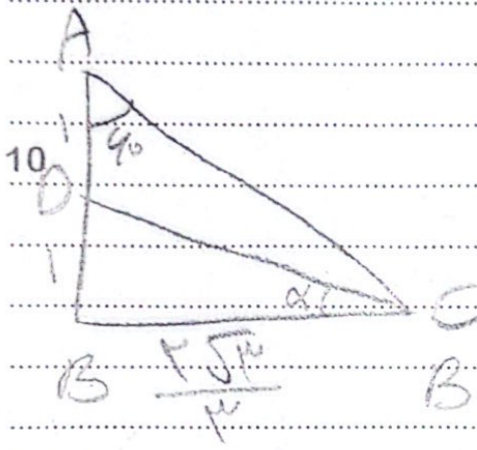
$$\sin 40^\circ = \frac{1}{P} = \frac{100\sqrt{P}}{y} \quad (P)$$

$$y = 100\sqrt{P}$$

$$M = \frac{100\sqrt{P}}{M} = \frac{\sqrt{P}}{P} \rightarrow M = 100$$

$$\frac{100 + x}{100\sqrt{P}} = \cos 40^\circ = \frac{1}{\sqrt{P}} \rightarrow 100 = 100 + x$$

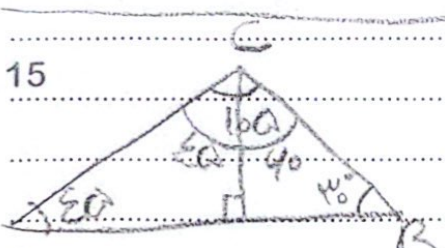
$$x = 0$$



$$\sin \alpha = ? \rightarrow \frac{10}{x\sqrt{P}} = \frac{10\sqrt{P}}{9\sqrt{P}} = \frac{10}{9}$$

$$\tan 40^\circ = \frac{\sqrt{P}}{x} = \frac{BC}{P} \rightarrow \frac{\sqrt{P}}{x} = \frac{BC}{P}$$

$$BC = \frac{x\sqrt{P}}{P}$$



$$\frac{AB}{AC} \Rightarrow \frac{\sin 10^\circ}{AC} = \frac{\sin 100^\circ}{AB} \quad (E)$$

$$\frac{\sqrt{P}}{P} \times \frac{\sqrt{P}}{P} = \frac{\sqrt{P}}{P} + \frac{\sqrt{P}}{P} = \frac{2\sqrt{P}}{P} = \frac{2}{\sqrt{P}} = \frac{10}{AB}$$

$$\sin 40^\circ \cos 50^\circ + \cos 40^\circ \sin 50^\circ = \frac{9}{10} = \frac{\sqrt{P} + \sqrt{P}}{P}$$

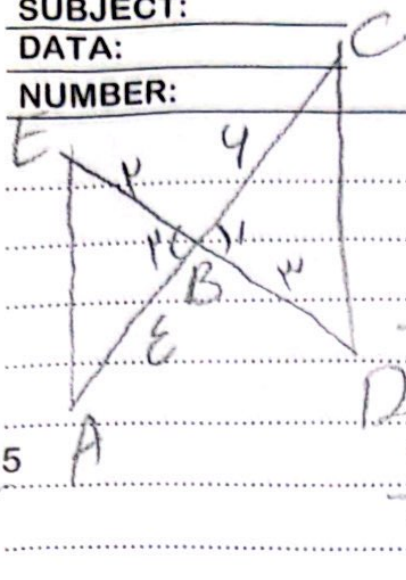
$$\frac{\frac{\sqrt{P}}{P}}{\frac{2\sqrt{P}}{P}} = \frac{AC}{AB} = \frac{\sqrt{11} + \sqrt{9}}{P} \rightarrow \frac{AB}{AC} = \frac{P}{\sqrt{11} + \sqrt{9}} = \frac{\sqrt{P} + \sqrt{9}}{P}$$

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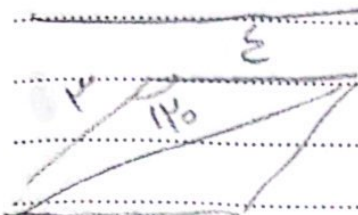


$$B_1 = B_2$$

(a)

$$\frac{S_{ABE}}{S_{BCD}} = \frac{A}{F} \times \frac{\sin B_1}{\sin B_2} \times \frac{1}{1A}$$

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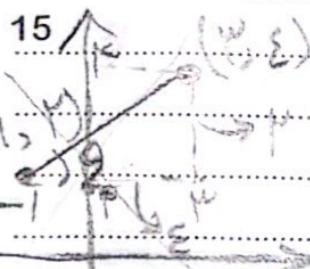


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$$\sin 110^\circ \times 1 \times 2 = \frac{\sqrt{10}}{10} \times 1 \times 2 = 4\sqrt{10}/9$$



$$S_{\triangle} = F \times \frac{1}{2} \times \frac{\sqrt{10}}{10} \times 1 \times \frac{1}{10} = \frac{10\sqrt{10}}{10}$$

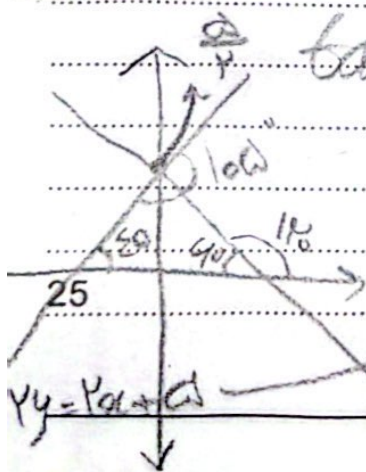


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$$\cos \theta = \frac{1}{\sqrt{10}} = \frac{1}{\sqrt{10}} = \frac{1\sqrt{10}}{10} \quad (V)$$

$$b = \frac{a}{\sqrt{10}}$$

$$\tan 110^\circ = m \Rightarrow \sqrt{10} \quad y = \sqrt{10}x + b \quad (0, \frac{a}{\sqrt{10}}) \quad (A)$$



$$a = 1 \rightarrow \tan \theta = 1 \quad \theta = 45^\circ$$

$$mb = -\frac{a\sqrt{10}}{1}$$

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

$$f\left(\frac{\pi}{4}\right) = ?$$

$$-\cos\left(\frac{\pi}{4}\right) + \cos\left(\frac{\pi}{4}\right) + \cot\left(\frac{\pi}{4}\right) = \sqrt{1}$$

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

$$\cos(x) + \cos(x)$$

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