

سینا فاطمی

اسم بصورت ثواب
شده مجاز نیست و غده بده

صفحه کافایت

$$\cos(\theta + \phi) = \cos\theta \cos\phi - \sin\theta \sin\phi$$

$$\cos\left(\frac{\sqrt{2}}{2} + \left(-\frac{\sqrt{2}}{2}\right)\right) = \cos\frac{\sqrt{2}}{2} \cos\left(-\frac{\sqrt{2}}{2}\right) - \sin\frac{\sqrt{2}}{2} \sin\left(-\frac{\sqrt{2}}{2}\right)$$

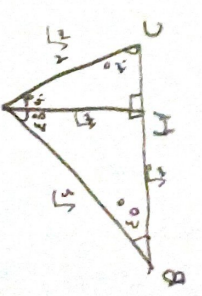
$$\cos\left(\frac{\sqrt{2}}{2} + \left(-\frac{\sqrt{2}}{2}\right)\right) = \frac{\sqrt{2}}{2} \times \frac{\sqrt{2}}{2} - \left(-\frac{\sqrt{2}}{2}\right) \times \left(-\frac{\sqrt{2}}{2}\right) = \frac{2}{4} - \frac{2}{4} = 0$$

الف - ۲

$$\cos(\theta + \phi) = \cos\theta \cos\phi - \sin\theta \sin\phi$$

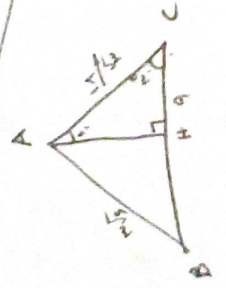
$$\cos\left(\frac{\sqrt{2}}{2} + \left(-\frac{\sqrt{2}}{2}\right)\right) = \cos\frac{\sqrt{2}}{2} \cos\left(-\frac{\sqrt{2}}{2}\right) - \sin\frac{\sqrt{2}}{2} \sin\left(-\frac{\sqrt{2}}{2}\right)$$

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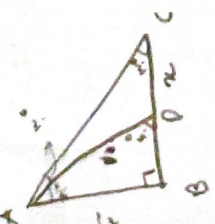
$$\frac{AB}{\sin 45^\circ} = \frac{AC}{\sin 90^\circ} \rightarrow \frac{1}{\frac{\sqrt{2}}{2}} = \frac{AC}{1} \rightarrow AC = \frac{2}{\sqrt{2}} = \sqrt{2}$$

$$\frac{BC}{\sin 45^\circ} = \frac{AC}{\sin 90^\circ} \rightarrow \frac{1}{\frac{\sqrt{2}}{2}} = \frac{AC}{1} \rightarrow AC = \frac{2}{\sqrt{2}} = \sqrt{2}$$



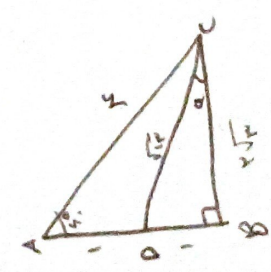
الف - ۳

$$\frac{AB}{\sin 45^\circ} = \frac{AC}{\sin 90^\circ} \rightarrow \frac{1}{\frac{\sqrt{2}}{2}} = \frac{AC}{1} \rightarrow AC = \frac{2}{\sqrt{2}} = \sqrt{2}$$



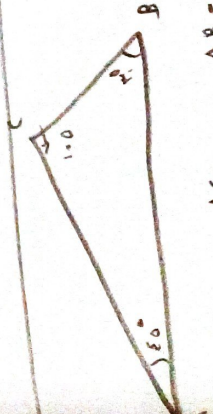
ب

$$\frac{AB}{\sin 45^\circ} = \frac{AC}{\sin 90^\circ} \rightarrow \frac{1}{\frac{\sqrt{2}}{2}} = \frac{AC}{1} \rightarrow AC = \frac{2}{\sqrt{2}} = \sqrt{2}$$



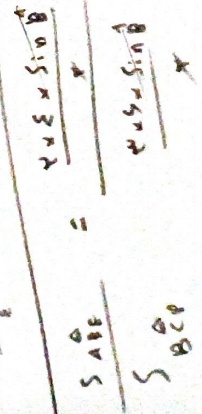
ب

$$\frac{AB}{\sin 45^\circ} = \frac{AC}{\sin 90^\circ} \rightarrow \frac{1}{\frac{\sqrt{2}}{2}} = \frac{AC}{1} \rightarrow AC = \frac{2}{\sqrt{2}} = \sqrt{2}$$



ب

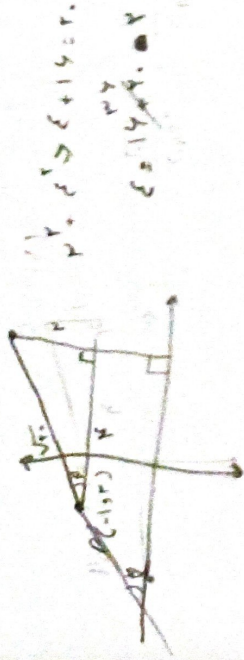
$$\frac{AB}{\sin 45^\circ} = \frac{AC}{\sin 90^\circ} \rightarrow \frac{1}{\frac{\sqrt{2}}{2}} = \frac{AC}{1} \rightarrow AC = \frac{2}{\sqrt{2}} = \sqrt{2}$$



$$\sin 120^\circ = \sin 60^\circ = \frac{\sqrt{3}}{2}$$

$$\frac{1}{2} \times 3 \times \sin 120^\circ \rightarrow \frac{1}{2} \times 3 \times \frac{\sqrt{3}}{2} = \frac{3\sqrt{3}}{4}$$

Area

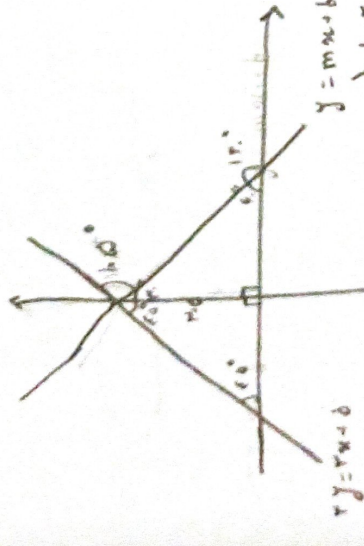


$$\cos 120^\circ = -\frac{1}{2}$$

$$\sin 120^\circ = \frac{\sqrt{3}}{2}$$

$$\cos 120^\circ = -\frac{1}{2}$$

$$\frac{\sqrt{3}}{2}$$



$$\sin 120^\circ = \frac{\sqrt{3}}{2}$$

$$\frac{\sqrt{3}}{2}$$

$$\cos 120^\circ = -\frac{1}{2}$$

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