

۲. آفرین (ت) ★

آسیا عطاپور

۱۶

6 سه شنبه May 2025
۸ ذی القعدة ۱۴۴۶ اردیبهشت

5 May 2025
۷ ذی القعدة ۱۴۴۶ اردیبهشت

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سوال ۱: ✓

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

مردم؟

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

$$\frac{2}{\left(\frac{\sqrt{2}}{2} + -\frac{\sqrt{3}}{2}\right) \left(\frac{\sqrt{2}}{2} + \frac{\sqrt{3}}{2}\right)} = \frac{3+1}{1+1} = \frac{4}{2} = 2$$

$$\sin \epsilon_0 = \frac{\sqrt{2}}{2} = \frac{AH}{\sqrt{4}} \Rightarrow \frac{\sqrt{2}}{2} = AH = \sqrt{3}$$

$$\left(\frac{\sqrt{2}}{2}\right)^2 = \left(\frac{\sqrt{3}}{2}\right)^2 + HC^2 \Rightarrow HC^2 = 9$$

$$HC = 3$$

سوال ۲:

$$\tan \theta = \frac{\sqrt{3}}{3} = \frac{H}{9} \Rightarrow H = 3\sqrt{3}$$

$$\frac{3\sqrt{3}}{3\sqrt{2}} = \frac{\sqrt{2}}{2} = \sin B \Rightarrow B = \epsilon_0^\circ$$

سوال ۳ ✓

$$\frac{\sqrt{3}}{2} \times AD = \omega \cdot \sqrt{3}$$

$$AD = 100$$

$$AD = DC \Rightarrow x = 100$$

$$CD^2 = 1 + 12 \Rightarrow CD = \sqrt{13}$$

$$\frac{BD}{DC} = \frac{1}{\sqrt{13}} \times \frac{\sqrt{13}}{\sqrt{13}} = \frac{\sqrt{13}}{13} \sin \alpha$$

$$\frac{D}{SB} = \frac{a}{SA} = \frac{c}{SC}$$

$$\frac{AB}{51.0} = \frac{AC}{51.0}$$

سوال ۴ ✓

$$\frac{AB}{AC} = \frac{51.0}{51.0} = 100$$

$$51.0 = (40 + 4.0)$$

$$= 540 + 40 + 540 + 540 = \frac{\sqrt{2}}{4} \times \frac{1}{4} \times \frac{\sqrt{2}}{4} \times \frac{\sqrt{2}}{4} = \frac{\sqrt{2} + \sqrt{2}}{4}$$

$$S = \frac{1}{r} a b \sin B$$

$$2 \times 4 \times \frac{1}{4} \times \sin B$$

سوال ۵ ✓

$$\frac{1}{4} \times 4 \times 4 \times \sin B = \frac{4}{a}$$

ab sina

$$3 \times \epsilon_x \sin \alpha \cdot \frac{1}{2} \sqrt{3} = 9\sqrt{3}$$

$$\frac{\sqrt{3}}{2} + \frac{1}{2} \times 2 \times 3 \times \frac{\sqrt{3}}{2} = 3\sqrt{3}$$

$$\frac{OQ}{PO} = \frac{\epsilon}{2\sqrt{3}} = \frac{2\sqrt{3}}{2}$$

$$14 + \epsilon = 6PO = \sqrt{3}$$

سوال ۸: $\Delta \rightarrow \tan \alpha = 1$

$$y = mx + b$$

$$\epsilon_d + D + b_d = 110 \rightarrow \theta = 30^\circ \rightarrow 30^\circ = 15^\circ = \alpha$$

$$\tan 15^\circ = -\sqrt{3}$$

$$y = -\sqrt{3}x + b$$

A $\Rightarrow y = x + 2, d$, $y = 2, d$
 $x = 0$

$$b = 2, d$$

$$b m = 2, d \times -\sqrt{3} = -2\sqrt{3}$$

10 May 2025 شنبه

۱۲ دی القاصه ۱۳۴۶

واردیبهشت

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سوال ✓

$$\cos x \cos x - \sin x \sin x = \cos 2x$$

$$f\left(\frac{2\pi}{4}\right) = -\sqrt{3}$$

$$\frac{\cos x}{\sin x} = \cot x$$

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

سوال ۱. ✓

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

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

~~سوال~~