(بناتی) ستایش خدایاری

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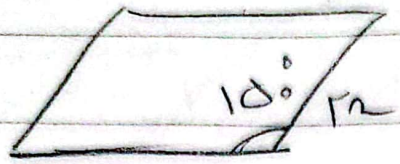
مساحت متوازی الاضلاع = $S = ab\sin\alpha$ (۱)



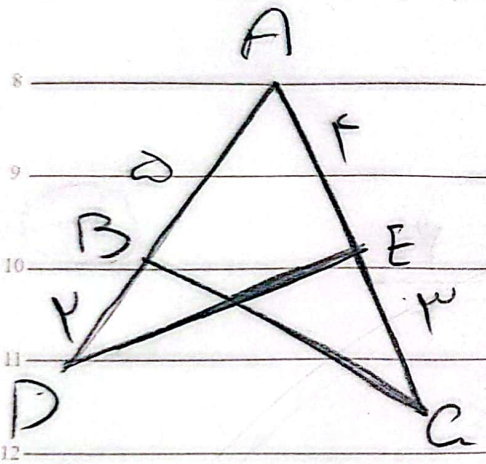
$\frac{1}{2} \times 4 \times 3 \sin 150^\circ = 6$

$\frac{1}{2} x^2 = 9$ (۲)

$x = \sqrt{18}$

$10\sqrt{18} = P$

$\sqrt{4}$



$\Delta S = \frac{V}{4}$ (۴)

$\frac{14 \sin A}{2} - \frac{35 \sin A}{2} = \frac{V}{4}$ (۵)

$\frac{1}{2} \sin A \times 7 \times 4 - \frac{1}{2} \sin A \times 7 \times 5 = \frac{V}{4}$

$\frac{V}{2} \sin A = \frac{V}{4}$

$\sin A = \frac{1}{2} \rightarrow A = 30^\circ$

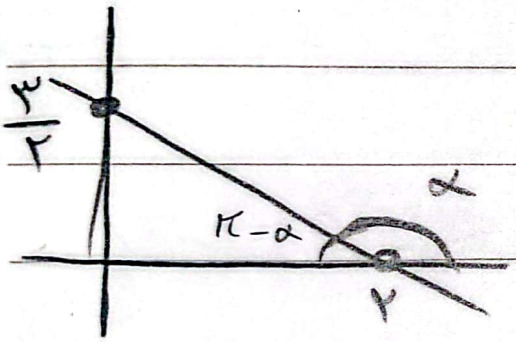
$\tan \hat{A} = \frac{\sqrt{3}}{3}$

۳) $\frac{1}{\sqrt{\cos^2\alpha}} - \tan\alpha = \frac{1+\sin}{|\cos|}$ $\quad \cos<0$

$\frac{1}{|\cos|} - \frac{\sin}{\cos} = \frac{1+\sin}{|\cos|}$ $\quad \frac{\sin}{|\cos|} = \frac{-\sin}{\cos}$

$\frac{|\sin\alpha|}{\cos\alpha} = \frac{-\sin}{\cos}$ $\quad \sin<0$ $\quad$ ناحیه سوم

۴)



$\tan(\pi-\alpha) = \frac{۳}{۴}$

$+\tan\alpha = -\frac{۳}{۴}$

$\tan\left(\frac{\pi}{۲}-\alpha\right) = +\cot\alpha = \frac{-۴}{۳}$

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$\alpha = 22^\circ$

(3)

$$\frac{3\cos(248) - 2\sin(152)}{\sin(252) - \cos(192)}$$

(4)

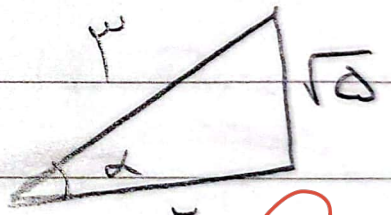
$$\frac{3\cos\left(\frac{3\pi}{2} - \alpha\right) - 2\sin(\pi - \alpha)}{\sin(\pi + \alpha) - \cos\left(\frac{3\pi}{2} + \alpha\right)}$$

$$\frac{+3\sin\alpha + 2\sin\alpha}{+\sin\alpha + \sin\alpha} = 2/5$$

(5)

$$\frac{\sin\left(\frac{\pi}{2} + \alpha\right) - \sin(\alpha - \pi)}{|\tan^2\alpha - 1|}$$

$-\sin(\pi - \alpha)$



(6) $\cos\alpha > 0$

$$\frac{\cos\alpha + \sin\alpha}{|\tan^2\alpha - 1|} = \frac{\frac{2}{3} - \frac{\sqrt{5}}{3}}{\left|\frac{5}{4} - 1\right|} = \frac{4(2 - \sqrt{5})}{3}$$

$\frac{1}{4}$

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(۷)

$\sin\alpha = 2\cos\alpha \longrightarrow \tan\alpha = 2$

tan, cot ≠ ۰

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

$1 + 4 = \frac{1}{\cos^2}$

$\cos\alpha = -\frac{1}{\sqrt{5}}$ (۶)

(۸)

$2mx + (m^2-1)y = 3$

شیب $= \sqrt{3}$

$2mx + (m^2-1)y = 3$

$\frac{-2m}{m^2-1} = \sqrt{3}$

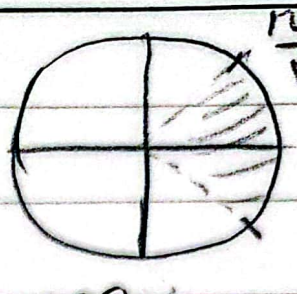
$\sqrt{3}m^2 - \sqrt{3} + 2m = 0$ (۶)

$\sqrt{3}m^2 + 2m - \sqrt{3} = 0$

$m^2 + 2m - 3 = 0$ $\quad a-3\ \ ac \longrightarrow \frac{1}{\sqrt{3}}, -\frac{3}{\sqrt{3}}$

$\frac{4}{\sqrt{3}}$ جواب

$$\tan\left(\frac{\pi}{4}-x\right)=\frac{1-m}{2+m}$$



(9)

$$\frac{\pi}{4} > -x > \frac{-\pi}{4}$$

$$x \in (-2, 1]$$

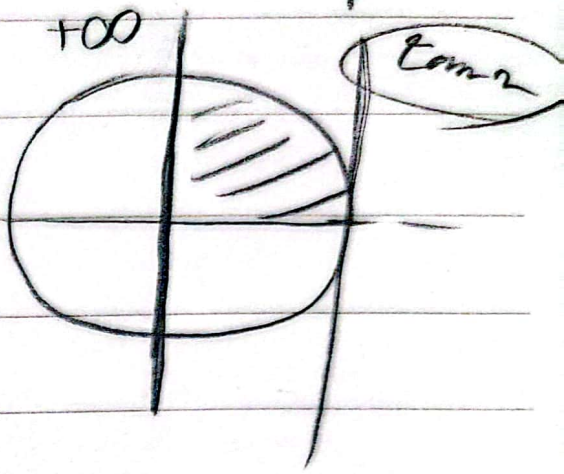
$$\frac{\pi}{2} > \frac{\pi}{4} - x > 0$$

(1)

$$\frac{1-m}{2+m} > 0$$

(2)

	-2		1	
	-	0	+	-



(1,75)

$$\tan(300^\circ)\cos(210^\circ)+\tan(480^\circ)\sin(840^\circ)$$

$$-\sqrt{3}\times\frac{-\sqrt{3}}{2}+\left(-\sqrt{3}\right)\times+\frac{\sqrt{3}}{2}=0$$

-360° → 120°

720° → 120°

(10)

(5)