بسم رب الذی خلق المهدی

Date: ۲۶ Subject: ستایش مراقی زادی

۱۷٫۵

$\frac{1}{2} \times 4k \times 4k \times \sin 150 = 24 \Rightarrow 4k^2 \times \frac{1}{2} = 24 \Rightarrow 2k^2 = 24$

$k^2 = 12$

$k = 2\sqrt{3}$

$P = 5k \Rightarrow$ محیط $= 2P = 20\sqrt{3}$

$\left| \left(\frac{1}{2} AD \times AE \sin A\right) - \left(\frac{1}{2} AB \times AC \sin A\right) \right| = 1,75$

$\sin A \left| AD \times AE - (AB \times AC) \right| = 3,5$

$\sin A \left| \frac{7 \times 4}{28} - \frac{5 \times 7}{35} \right| = 2,5$

$7 \sin A = \frac{7}{2} \Rightarrow \sin A = \frac{1}{2} \Rightarrow A = 30^\circ$

$\tan 30 = \frac{\sqrt{3}}{3}$

$\frac{1}{|\cos\alpha|} - \frac{\sin\alpha}{\cos\alpha} = \frac{1+\sin\alpha}{|\cos\alpha|} \Rightarrow \tan\alpha \ominus$

$\frac{|\sin\alpha|}{\cos\alpha} = \frac{-\sin\alpha}{\cos\alpha} \Rightarrow \sin\alpha \ominus$

ناحیه ۲ سوم

$\frac{1}{|\cos\alpha|} - \frac{1+\sin\alpha}{|\cos\alpha|} = \tan\alpha \rightarrow \frac{-\sin\alpha}{|\cos\alpha|} = \frac{\sin\alpha}{\cos\alpha} \rightarrow \cos\alpha < 0$

$|\text{شیب}| = \frac{3}{4} \Rightarrow \tan\alpha = -\frac{3}{4}$ $\quad + \cot\alpha = ? = \ominus\frac{4}{3}$

$\frac{-3\sin\alpha - 2\sin\alpha}{-\sin\alpha - \sin\alpha} = \frac{-5}{-2} = \frac{5}{2}$

$\alpha = 127^\circ$

۱۷٫۵

MAHAN

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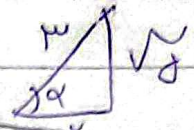
$\tan\alpha = -\frac{\sqrt{5}}{2}$



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

$\sin^2\alpha + \cos^2\alpha = 1 \Rightarrow 4c^2 + c^2 = 1 \Rightarrow c = -\frac{\sqrt{5}}{5}$

$\tan 4\theta = \frac{2m}{1-m^2} = \sqrt{3}$

$\sqrt{3}m^2 + 2m - \sqrt{3} = 0 \xrightarrow{\div\sqrt{3}} m^2 + \frac{2\sqrt{3}}{3}m - 1 = 0$

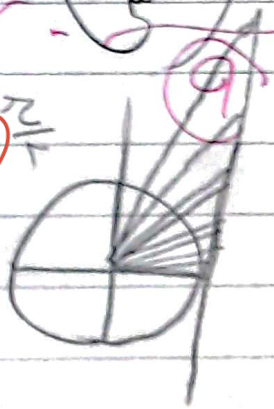
$m = \frac{-\frac{2\sqrt{3}}{3} \pm \sqrt{\frac{4}{3}+4}}{2} \Rightarrow$ اختلاف $= \frac{\sqrt{5}}{a} = \frac{\frac{4}{\sqrt{5}}}{1} = \frac{4\sqrt{5}}{5}$

$\frac{\pi}{4} - x = \alpha \quad -\frac{\pi}{4} < -x < \frac{\pi}{4} \Rightarrow 0 < \alpha < \frac{\pi}{2}$

$0 < \tan\alpha < +\infty$

$0 < \frac{1-m}{2+m} < +\infty$

$(m < 1)$



$-\sqrt{2}\times - \frac{\sqrt{2}}{2} + -\sqrt{3}\times\frac{\sqrt{2}}{2}$

$\frac{3}{2} - \frac{2}{2} = \{0\}$

MAHAN