$S_{ABC} = \frac{1}{2} \times 3m \times 2m \times \sin 150 = 3m^2$

محیط $= 10\sqrt{14} = 30\sqrt{2}$ cm

$3m^2 = 45 \rightarrow m^2 = 15 \rightarrow m = \sqrt{15}$

09:00

$5 \times 4 \times \frac{1}{2} \times \sin A = 14 \sin A$

10:00

$5 \times 4 \times \frac{1}{2} \times \sin A = \frac{15}{2} \sin A$

11:00

$\frac{35}{4} \sin A - \frac{28}{4} \sin A = 1.75$

12:00

$\frac{7}{4} \sin A = \frac{7}{8} \rightarrow A = 30^\circ \quad \cos A = \frac{\sqrt{3}}{2}$

13:00

$\frac{1}{|\cos\alpha|} - \frac{\sin\alpha}{\cos\alpha} = \frac{1+\sin\alpha}{|\cos\alpha|} \rightarrow \frac{|\sin\alpha|}{\cos^2\alpha} = \frac{1}{\cos\alpha}$

14:00

15:00

$\cos + \frac{\text{تبدیل}}{} - \rightarrow \cos 60 \rightarrow$ ربع سوم

$\sin \rightarrow - \rightarrow \sin 240$

16:00

$\tan(180-\theta) = \frac{7.5}{4} = \frac{3}{4} \rightarrow -\tan\theta = \frac{3}{4} \rightarrow \cot\theta = -\frac{4}{3}$

17:00

$\cot\alpha = -\frac{4}{3}$

18:00

$\frac{2\cos(270-22) - 3\sin(180-22)}{\sin(180+22) - \cos(270-22)} = \frac{-2\sin 22 - 3\sin 22}{-\sin 22 - \sin 22} = \frac{5}{2}$

19:00

20:00

$\sin^2\alpha + \cos^2\alpha = 1 \rightarrow \sin^2\alpha + \frac{5}{9} = 1 \rightarrow \sin^2\alpha = \frac{4}{9} \rightarrow \sin\alpha = \frac{\sqrt{5}}{3}$

$\frac{2+\sqrt{5}}{30} \rightarrow \frac{2+\sqrt{5}}{3} = \frac{8+4\sqrt{5}}{3}$

$\left|\frac{5}{4} - 1\right| \quad \frac{1}{4}$

روز بزرگداشت خوارزمی - روز فناوری اطلاعات

29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

$\sin^2\alpha + \cos^2\alpha = 1 \rightarrow \frac{4}{5}\cos^2\alpha + \cos^2\alpha = 1 \rightarrow \frac{9}{5}\cos^2\alpha = 1 \rightarrow \cos^2\alpha = \frac{5}{9} \rightarrow \cos\alpha = -\frac{\sqrt{5}}{3}$ ق $\frac{-1}{\sqrt{5}}$

$5\cos^2\alpha$

08:00

09:00

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

$\Delta = 4 - 4(\sqrt{3})(-\sqrt{3}) = 16$ $\begin{cases} \frac{-2+4}{2\sqrt{3}} = \frac{1}{\sqrt{3}} \\ \frac{-2-4}{2\sqrt{3}} = -\frac{3}{\sqrt{3}} \end{cases}$

10:00

$\left|\frac{1}{3} + \frac{3}{\sqrt{3}}\right| = \frac{4\sqrt{3}}{3}$

11:00

$\tan\left(\frac{\pi}{4} - \alpha\right) = \cot\alpha = \frac{1-m}{2+m} > 0$ ⟶ $(-2, 1)$

12:00

13:00

$\tan(360 - 90)^\circ (180 + 30) + \tan(360 + 120)\sin(4\times180 + 120)$

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

14:00

$\frac{3}{2} + \frac{3}{2} = 3$

15:00