

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

(۱, ۲۵)

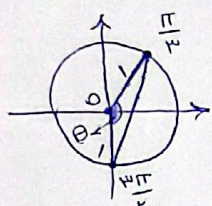
$$\frac{-b\sqrt{3}}{\sqrt{3}(a+b)} \Rightarrow -\frac{2b\sqrt{3}}{\sqrt{3}} = \frac{2a\sqrt{3}}{\sqrt{3}} \Rightarrow \frac{b}{a} = -1$$

$$\frac{\sqrt{3}(a+b)}{a-b} = -\frac{\sqrt{3}}{2} \Rightarrow \frac{2a+b}{a-b} = -1 \Rightarrow 2a+b = -a+b \Rightarrow 3a = 0 \Rightarrow a = 0$$

$$2a = -2b \Rightarrow \frac{b}{a} = -\frac{2a}{a} = -2$$

$$120^\circ (\cos, \sin) \Rightarrow 60^\circ, \frac{\pi}{3}$$

$$20 + 210 = 230 = \frac{3\pi}{4} = p'$$



$$\theta = 60^\circ + 90^\circ = 150^\circ$$

$$c^2 = a^2 + b^2 - 2ab \cos C$$

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

$$c^2 = 2 + \sqrt{3} \Rightarrow c = \sqrt{2 + \sqrt{3}}$$

$$\text{مس: } 1 + 1 + \sqrt{2 + \sqrt{3}}$$

$$\frac{\frac{\pi}{9}}{\frac{\pi}{6}} = \frac{6}{9} = \frac{2}{3}$$

$$\frac{\pi}{6} = \frac{\pi}{6}$$

$$2: K_1' \leftarrow K_2 = \frac{2}{3}$$

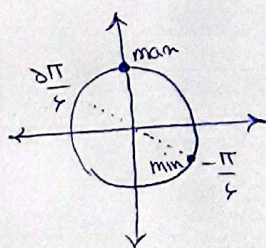
$$\alpha = \left| \frac{11}{2} M - 3H \right| \Rightarrow p_0 = |5, 5M - 30 \times 3|$$

$$\Rightarrow \begin{cases} p_0 = 5, 5M - 90 \Rightarrow M = \frac{110}{5, 5} = 40 \end{cases} \text{ بار دوم}$$

$$p_0 = 90 - 5, 5M \Rightarrow M = \frac{70}{5, 5} \text{ بار اول}$$

نسب از ۲۰ دقیقه

$$-\frac{1}{2} \leq \sin \alpha \leq 1 \Rightarrow -\frac{5}{2} \leq m - 3 \leq 5 \Rightarrow \frac{1}{2} \leq m \leq 8$$



شامل ۸ عدد صحیح

$$\frac{\cos(1\omega) - K \sin(1\omega)}{-\cos(1\omega) - Y \sin(1\omega)} = \psi \Rightarrow \frac{K - K}{-K - Y} = \psi$$

$$\tan = \frac{1}{K}$$

$$K - K = -1\lambda \Rightarrow$$

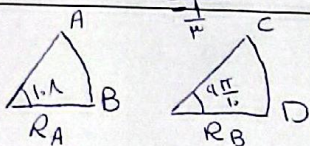
$$K = Y\psi$$

$$Y + Y \cos \alpha = 1 - \cos \alpha \Rightarrow Y \cos \alpha = -1 \Rightarrow \cos \alpha = \frac{-1}{Y} \quad \left\{ \frac{1}{a} + \sin^2 = 1 \right.$$

$$\frac{\cot(\alpha) + \cot(\alpha)}{\tan(\alpha) - Y \tan(\alpha)} = \frac{Y \cot(\alpha)}{-\tan(\alpha)} \times \frac{\sin(\alpha)}{\sin(\alpha)} = \frac{\cos(\alpha) + \cos(\alpha)}{-\frac{\sin^2(\alpha)}{\cos(\alpha)}}$$

$$\Rightarrow \frac{\frac{-Y}{\psi}}{\frac{-1}{\frac{1}{Y}} \frac{1}{a}} = \frac{\frac{-Y}{\psi}}{\frac{-Y\psi}{-1}} = \frac{-1\lambda}{Y\psi} = \frac{-1}{K}$$

$$\sin^2 = \frac{1}{a}$$



$$1.1 = \frac{4.1\pi}{\omega} \text{ Rad}$$

$$\overline{AB} = \frac{4.1\pi}{\omega} \times R_A = \frac{9\pi}{1.1} \times R_B = \overline{CD}$$

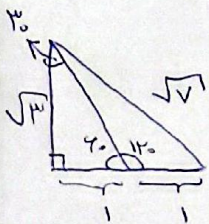
$$R_B = \frac{4.1\pi}{9\pi} R_A \Rightarrow R_B = \frac{Y}{\psi} R_A$$

$$\frac{\pi R_A^2}{\pi R_B^2} = \frac{R_A^2}{\frac{Y}{\psi} R_A^2} = \frac{a}{K}$$

$$\cot \psi = \sqrt{\psi} = \frac{AB}{1} \Rightarrow AB = \sqrt{\psi} \quad \text{مساحة } S = \sqrt{\psi} \times BC \times \frac{1}{\psi} = \sqrt{\psi}$$

$$BC = Y \Rightarrow AD \text{ مساحت}$$

$$\sin \psi = \frac{1}{Y} = \frac{1}{AD} \Rightarrow AD = Y$$



$$\sqrt{K + \psi} = \sqrt{Y}$$

$$\frac{\sqrt{Y}}{\sqrt{\psi}} = \frac{Y}{\sin C} \Rightarrow \sin C = \frac{\sqrt{\psi}}{\sqrt{Y}}$$

$$\sin 2\alpha = Y \sin \alpha \cos \alpha \quad \cos^2 = \frac{K}{Y} \Rightarrow \cos C = \frac{Y}{\sqrt{Y}}$$

$$\Rightarrow \sin 2C = Y \times \frac{\sqrt{\psi}}{\sqrt{Y}} \times \frac{Y}{\sqrt{Y}} = \frac{K\sqrt{\psi}}{\sqrt{Y}}$$

$$\sqrt{K + Y} = \sqrt{\psi} = AM = AN \quad \sqrt{Y} = MN$$

$$C^2 = a^2 + b^2 - 2ab \cos C$$

$$Y = 1\psi + 1\psi - Y \times 1\psi \cos \theta$$

$$Y\psi \cos \theta = YK$$

$$\cos \theta = \frac{1\psi}{1\psi}$$

$$\sin \theta = \sqrt{1 - \frac{1\psi\psi}{1\psi\psi}} = \frac{\psi}{1\psi}$$

