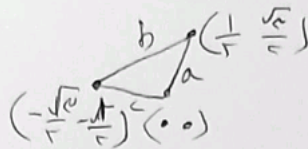


$$\frac{\frac{a\sqrt{3}}{r} + \frac{b\sqrt{3}}{r}}{\frac{a+b}{r}} = \frac{-\sqrt{3}}{3} \rightarrow \frac{3\sqrt{3}\sqrt{3}}{3\sqrt{3}-\sqrt{3}} = \frac{b}{a} = 1$$

$$\frac{\sqrt{3}(a+b)}{a-b} = -\frac{\sqrt{3}}{3} \rightarrow 3a+3b = -a+b$$

$$4a = -2b \rightarrow \frac{b}{a} = -\frac{2a}{a} = -2$$

$$P \rightarrow 60^\circ \rightarrow P' = 21^\circ$$



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

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

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

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

$$\frac{R}{9} \times \frac{180}{R} = 20^\circ \Rightarrow 20^\circ \text{ (با } 9 \text{)} \div 2 \checkmark$$

$$|a_m - a_1(t)| = 20 \rightarrow \begin{cases} m = 20 \text{ بار} \\ m = \frac{140}{11} \text{ بار} \end{cases} \checkmark$$

$$\frac{1}{r} \frac{m-r}{\Delta} \leq 1 \rightarrow \frac{1}{r} m \leq 8 \rightarrow 1, 2, 3, 4, 5, 6, 7, 8 \rightarrow \text{مجموعه}$$

$$\frac{\cos 10^\circ - k \sin 10^\circ}{-\cos 10^\circ - \tau \sin 10^\circ} = \mu \rightarrow \frac{\sin 10^\circ}{\cos 10^\circ} = \frac{1}{\epsilon}$$

$$\frac{\epsilon - k}{-\epsilon - \tau} = \mu \rightarrow k = \tau \tau$$

✓

6

$$\frac{\cot \alpha + \tan \alpha}{\tan \alpha - \tau \tan \alpha} = \frac{\sqrt{\lambda} + \frac{1}{\sqrt{\lambda}}}{\frac{-1}{\sqrt{\lambda}}} = \frac{9}{-1} = -9$$



1

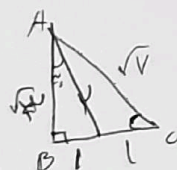
7

$$V_B \times \frac{qR}{l_1} = V_A \times \frac{l_0 \tau}{l_1 \lambda_0} \rightarrow \frac{V_A}{V_B} = \frac{\tau}{\epsilon} \rightarrow \frac{\tau V_A}{\epsilon V_B} = \frac{q}{\epsilon}$$

✓

✓

8

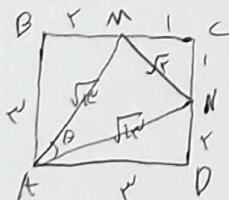


$$\frac{\sqrt{x} x}{y} = \sqrt{y} \rightarrow x = y$$

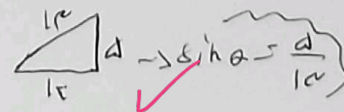
$$\sin \alpha = \tau \sin \epsilon \cos \epsilon \Rightarrow \tau \frac{\sqrt{x}}{\sqrt{y}} \times \frac{1}{\sqrt{y}} = \frac{\epsilon \sqrt{x}}{y}$$

✓

9



$$\sqrt{\epsilon} = \sqrt{(\sqrt{\tau})^2 + (\sqrt{\tau})^2 - 2\sqrt{\tau}\sqrt{\tau}\cos\theta} \Rightarrow \cos\theta = \frac{\tau\epsilon}{\tau^2} = \frac{1\tau}{1\epsilon}$$



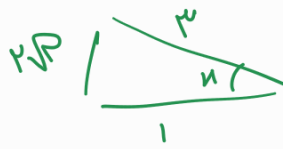
✓

10

$$1 - \cos n = \gamma + \gamma \cos n \rightarrow \cos n = -\frac{1}{\gamma}$$

v

$$\frac{\cot n + \cot n}{\tan n - \gamma \tan n} = \frac{\gamma \cot n}{-\tan n} = -\gamma \cot n$$


 $\rightarrow \cot n = -\frac{1}{\sqrt{2}} \rightarrow -\gamma \cot n = -\gamma \times \frac{1}{\sqrt{2}} = -\frac{1}{2}$