

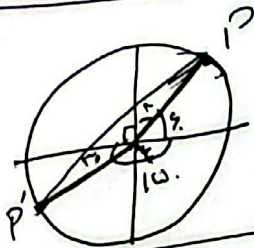
۲. با کسرهای معاد دهم در دست

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

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

$$\rightarrow 2a + 2b = -a + b \rightarrow 3a = -b$$

$$\boxed{\frac{b}{a} = -3}$$



$$\angle = 10^\circ$$

$$OP = OP' = 1$$

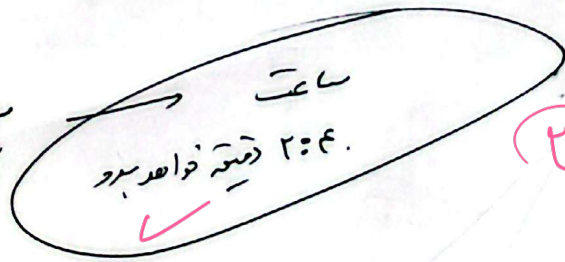
$$PP'^2 = 1 + 1 - 2 \times 1 \times 1 \times \cos(10^\circ)$$

$$\rightarrow PP' = \sqrt{2 - 2\cos(10^\circ)}$$

$$PP = 1 + 1 + \sqrt{2 + \sqrt{3}}$$

$$\frac{12}{9} = 20^\circ$$

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$$|0.0m - 3.0h| = 2.0$$

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$$\rightarrow 0.0m = 11.0$$

$$\boxed{m = 11}$$

$$-\frac{1}{2} \leq \sin \theta \leq 1$$

$$\frac{m}{\theta} \leq \frac{1}{2} \leq \frac{1}{\theta}$$

$$\boxed{[1, 2]} = \text{مورد}$$

$$\frac{\cos 10^\circ - r \sin 10^\circ}{-\cos 10^\circ - r \sin 10^\circ} = r \xrightarrow{\div \cos 10^\circ} \frac{1 - \frac{1}{r} K}{-1 - \frac{1}{r} K} = \frac{1 - \frac{1}{r} K}{-\frac{r}{r}} = r - S$$

$$\rightarrow -\frac{q}{r} = 1 - \frac{1}{r} K \quad -\frac{11}{r} = -\frac{1}{r} K \quad \boxed{K = r r}$$

$$\frac{\cot x + \cot x}{\tan x - r \tan x} = \frac{r \cot x}{-\tan x} = -r \frac{\frac{\cos}{\sin}}{\frac{\sin}{\cos}} = -r \frac{\cos^r}{\sin^r} = -r \cot^r = -r \times \frac{1}{\lambda}$$

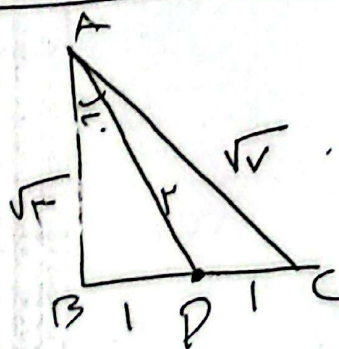
$$= \boxed{-\frac{1}{r}}$$

$$\frac{1 - \cos x}{1 + \cos x} = r \rightarrow r + r \cos x = 1 - \cos x$$

$$r \cos x = -1 \quad \boxed{\cos x = -\frac{1}{r}} \quad q = 1 + \tan^2 \rightarrow \boxed{\tan = r \sqrt{r}}$$

$$\frac{1. \wedge}{r r.} = \left(\frac{r}{1.} \right) \rightarrow r R_A \times \frac{r}{1.} = \frac{q}{r.} \times r R_B$$

$$\rightarrow \frac{R_A}{R_B} = \frac{\frac{q}{r.}}{\frac{r}{1.}} = \frac{r}{r} \rightarrow \left(\frac{R_A}{R_B} \right)^r = \frac{q}{r} = \frac{S_A}{S_B}$$



$$S_{ABC} = \sqrt{r} \rightarrow \sqrt{r} \times (1 + DC) = \sqrt{r}$$

$$\sin r c = r \sin \hat{c} \cos \hat{c}$$

$$\rightarrow \sin r c = r \times \frac{\sqrt{r}}{\sqrt{r}} \times \frac{r}{\sqrt{r}} = \boxed{\frac{r \sqrt{r}}{r}}$$

$$\rightarrow AC = \sqrt{r}$$

$$S_{C.P.} = r \times r = \textcircled{9}$$

$$S_{C.P.} = \underbrace{S_{MNC}}_{\frac{1 \times 1}{r}} + \underbrace{S_{ABM}}_{\frac{r \times r}{r}} + \underbrace{S_{NDA}}_{\frac{r \times r}{r}} + \underbrace{S_{AAMN}}_{AM \times AN \times \frac{1}{r} \times \sin \theta}$$

$$\frac{1 \times 1}{r} = \frac{1}{r} + \frac{1}{r} + \frac{1}{r} + 1r \times \frac{1}{r} \times \sin \theta \rightarrow \frac{a}{r} = \frac{1r}{r} \times \sin \theta$$

$$\rightarrow \boxed{\sin \theta = \frac{a}{1r}}$$