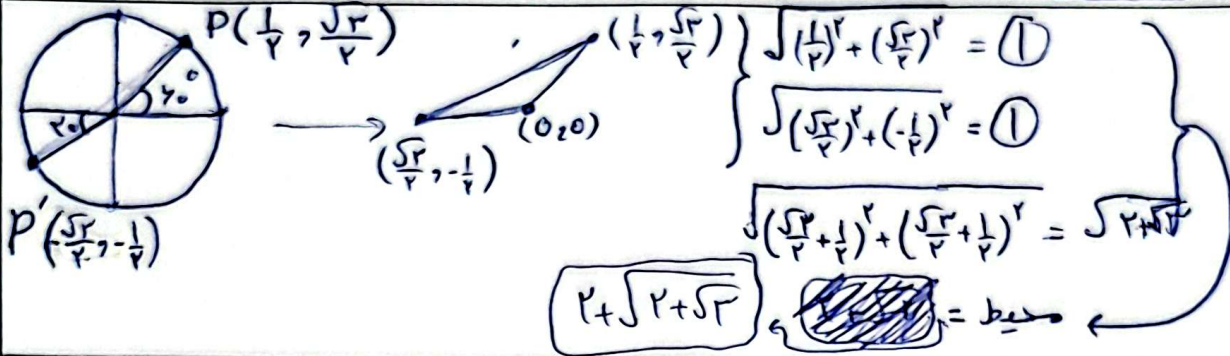


$$-\frac{\sqrt{r}}{r} = \frac{-\frac{\sqrt{r}a}{r} - \frac{\sqrt{r}b}{r}}{-\frac{a}{r} + \frac{b}{r}} \rightarrow -\frac{\sqrt{r}}{r} = \frac{-\frac{\sqrt{r}}{r}(a+b)}{\frac{1}{r}(b-a)} \rightarrow +\frac{1}{r} = \frac{a+b}{b-a}$$

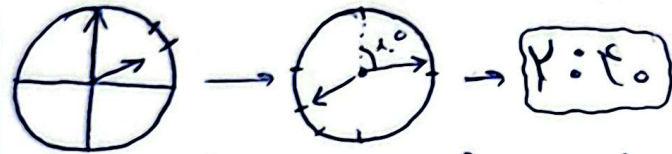
$$-\frac{a}{r} + \frac{b}{r} = a + b \rightarrow +\frac{rb}{r} = -\frac{ra}{r} \rightarrow +b = -a \rightarrow \boxed{\frac{b}{a} = -1}$$



درجه عقرب ساعت شمار = هر یک درجه عقرب ساعت شمار : درجه عقرب ساعت شمار

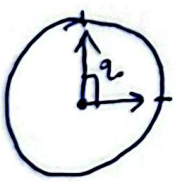






در خلاصه جبهه عقربه ساعت: $20^\circ \rightarrow 24^\circ \rightarrow$  $\rightarrow$  $\rightarrow$ 1:20

$$12x - (x + 90) = 40^\circ \rightarrow 11x = 130^\circ \rightarrow x = 10$$



عقربه ساعت ساز باید ۱۰ بدرخشد ← عقربه دقیقه ساز باید ۱۲۰ بدرخشد

→ $12.^\circ = 12.^\circ$

$$-\frac{\pi}{2} < x \leq \frac{\pi}{2} \rightarrow -\frac{1}{2} < x \leq \frac{1}{2} \rightarrow \sin x \in (-\frac{1}{2}, 1]$$

$$\frac{m-r}{d} \in (-\frac{1}{r}, 1] \rightarrow m-r \in (-r, d, d] \rightarrow m \in (\frac{1}{r}, 1]$$

← 1500000000

$$\frac{\sin 10^\circ - k \cos 10^\circ}{-\cos 10^\circ - r \sin 10^\circ} = r \rightarrow \sin 10^\circ - k \cos 10^\circ = -r \cos 10^\circ - r^2 \sin 10^\circ$$

$$v \sin \theta = (k-r) \cos \theta \rightarrow \tan \theta = \frac{k-r}{v} \rightarrow \frac{1}{v} = \frac{k-r}{v}$$

$$v = 15k - 12 \rightarrow 15k = 19 \rightarrow k = \frac{19}{15}$$

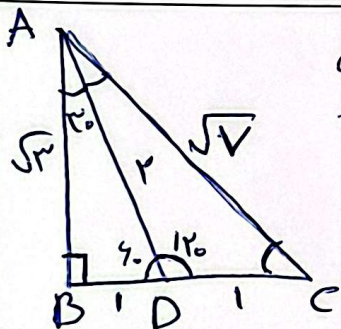
$$1 - \cos \pi = r + r \cos \pi \rightarrow \cos \pi = -\frac{1}{r}$$

$$\frac{+ \cot x + \cot x}{\cancel{\cot x} - \tan x} = \frac{r \cot x}{-\tan x} \rightarrow -r \frac{\cos}{\sin} = -r \frac{\frac{1}{q}}{\frac{1}{p}} = \boxed{-\frac{p}{q}}$$

$$\frac{I_o \Delta}{I_{\Delta o}} = \frac{R}{r} \Rightarrow \frac{r}{\Delta}$$

$$\frac{V_A}{10} \times R_A = \frac{9V}{10} \times R_B \rightarrow \frac{R_A}{R_B} = \frac{\frac{9V}{10}}{\frac{V}{10}} = \frac{9V}{V}$$

$$\frac{S_A}{S_B} = \frac{K_A}{K_B} \rightarrow \frac{K_A}{K_B} = \frac{\left(\frac{1}{V} R_B\right)}{R_B} = \frac{9}{8}$$



$$\sin \theta_0 = \frac{1}{r} = \frac{1}{AP} \rightarrow AP = r$$

$$\tan \alpha_0 = \frac{1}{\sqrt{r}} = \frac{1}{AB} \rightarrow AB = \sqrt{r}$$

$$S_{ABC} = \sqrt{3} = \frac{BC \times \sqrt{3}}{2} \rightarrow BC = 2 \rightarrow DC = 1$$

$$\sin C = \frac{\sqrt{r}}{\sqrt{v}}, \cos C = \frac{r}{\sqrt{v}} \rightarrow \sin^2 C = r \sin \pi \cos \pi$$

~~$$\sin \theta = \frac{|\vec{A} \times \vec{B}|}{|\vec{A}| |\vec{B}|} \quad \text{for } \vec{A} = \begin{pmatrix} a_1 \\ a_2 \\ a_3 \end{pmatrix}, \vec{B} = \begin{pmatrix} b_1 \\ b_2 \\ b_3 \end{pmatrix}$$~~

$$C_{\text{value}} = 3 \times 3 = 9 \longrightarrow C_{\text{value}} = 9 - 3 - 3 - \frac{1}{3} = \frac{1}{3} \quad 1.$$

$$\text{Chinches} = \frac{1}{r} \times \text{Chinches} \times \sin \theta \rightarrow \frac{1}{r} \times \sqrt{r} \times \sqrt{r} \times \sin \theta = 1.0$$

$$\sin \theta = \frac{1}{\sqrt{r}}$$