

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

$$+a+b = -b+a \Rightarrow a=b \quad \text{یا} \quad a = -b \Rightarrow \frac{b}{a} = -\frac{1}{\sqrt{a}}$$

~~$\frac{b}{a} = -\frac{1}{\sqrt{a}}$~~



$\angle POP' = 45^\circ$

$OP = OP' = 1$

$PP' = \sqrt{1^2 + 1^2 - 2 \cdot 1 \cdot 1 \cdot \cos 135^\circ} = \sqrt{2 - \sqrt{2}}$

$OPP' = 1 + \sqrt{2 - \sqrt{2}}$

مقدار $\frac{r}{c}$ را در $\frac{r}{c} = \frac{r_0}{c_0}$ قرار دهیم

$\frac{r_0}{c_0} = \frac{r}{c} \Rightarrow \frac{r}{c} = \frac{r_0}{c_0}$

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$\alpha = \left| \frac{11m}{c} - \alpha H \right| \Rightarrow r_0 = \frac{11m}{c} \Rightarrow 90 \Rightarrow 110 = \frac{11m}{c} \Rightarrow m = 10$

$\alpha = 110^\circ$

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$\sin \frac{135^\circ}{2} = \frac{1}{\sqrt{2}}$

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$$\frac{\cos 120 + k \sin 120}{-\cos 120 - k \sin 120} \star \frac{+k \sin 120}{-k \sin 120} =$$

$$\frac{1 - \frac{1}{2}k}{-1 - \frac{1}{2}k} = \frac{-k - \frac{1}{2}}{\frac{1}{2}k} \Rightarrow 1 - \frac{1}{2}k = -1 - \frac{1}{2}k$$

$$\frac{1}{2}k = \frac{1}{2} \Rightarrow k = 1$$

$$r + r \cos \alpha = 1 - \cos \alpha \Rightarrow r \cos \alpha = -1 - \cos \alpha \Rightarrow \cos \alpha = -\frac{1}{r} \Rightarrow \sin \alpha = \sqrt{1 - \frac{1}{r^2}} = \frac{\sqrt{r^2 - 1}}{r}$$

$$\cos \alpha = -\frac{1}{r}$$

$$\frac{\cos 2\alpha + \cos 2\alpha}{\sin 2\alpha + \sin 2\alpha}$$

$$\frac{\cos 2\alpha}{\sin 2\alpha} = \frac{\cos 2\alpha}{\sin 2\alpha} = -\frac{1}{r}$$

$$\frac{1}{\omega} = \frac{r}{v} \Rightarrow \omega = \frac{v}{r} \Rightarrow \frac{1}{\omega} = \frac{r}{v} \Rightarrow \frac{r}{\omega} = \frac{v}{\omega^2} \Rightarrow R_A \times \theta_A = R_B \times \theta_B$$

$$\frac{R_A}{R_B} = \frac{\frac{v}{\omega}}{\frac{v}{\omega}} = \frac{v}{\omega}$$

$$\frac{v}{\omega} \propto R_A = R_B \propto \frac{v}{\omega}$$

$$\frac{S_A}{S_B} = \left(\frac{R_A}{R_B} \right)^2 = \left(\frac{v}{\omega} \right)^2$$

$$S_{ABC} = \frac{AB \times AC}{2} = \frac{1}{2} \times \sqrt{2} \times \sqrt{2} = 1$$

$$\frac{AB \times AC}{2} = \frac{1}{2} \times \sqrt{2} \times \sqrt{2} = 1$$

$$\frac{AB}{BD} = \frac{2 \sin 45^\circ}{2 \sin 45^\circ} = 1$$

$$\sqrt{BC^2 + AD^2} = \sqrt{2^2 + 2^2} = 2\sqrt{2}$$

$$\sin C = \frac{2 \sin 45^\circ \cos 45^\circ}{2} = \frac{1}{2}$$

$$\frac{v}{v} \propto \frac{1}{v} = \frac{1}{v}$$

$$\sin \alpha = \frac{1}{r} \Rightarrow \cos \alpha = \frac{1}{\sqrt{1 + \frac{1}{r^2}}} = \frac{r}{\sqrt{r^2 + 1}}$$

$$\sin \alpha = \frac{1}{r} \Rightarrow \cos \alpha = \frac{1}{\sqrt{1 + \frac{1}{r^2}}} = \frac{r}{\sqrt{r^2 + 1}}$$

$$\sin \theta = \frac{1 - \frac{1}{r}}{1 + \frac{1}{r}} = \frac{r - 1}{r + 1}$$