

Subject:

Year: Month: Day: ()

بدرم و جوسه

12

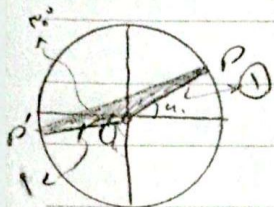
پرسه

page: ()

$$\frac{a \sin \frac{\pi}{4} + b \cos \frac{\pi}{4}}{a \sin \frac{\pi}{4} + b \cos \frac{\pi}{4}} = \frac{\frac{\sqrt{r}}{r} a - b \frac{\sqrt{r}}{r}}{-\frac{a}{r} + \frac{b}{r}} = -\frac{\sqrt{r}}{r} \rightarrow \frac{\sqrt{r} a - b \sqrt{r}}{-a + b} = -\frac{\sqrt{r}}{r}$$

$$\sqrt{r} a - b \sqrt{r} = -a + b$$

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



$$r \cos \alpha = \frac{r \sin \alpha}{\tan \alpha} = \frac{r \sin \alpha}{4}$$

$$r \cos \alpha = \frac{1}{4} \sin \alpha$$

$$P' = \begin{pmatrix} -\frac{\sqrt{r}}{r} \\ -\frac{1}{r} \end{pmatrix}$$

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

$$\frac{r}{\ln} = \frac{r}{r} \rightarrow \frac{r}{\ln} = 1 \rightarrow r = \ln \rightarrow (r, \ln)$$

$$15 \quad \frac{11}{r} M - \frac{r}{r} = r_0 \rightarrow \frac{11}{r} M - 1 = r_0 \rightarrow \frac{11}{r} M = r_0 + 1 \rightarrow M = \frac{r(r_0 + 1)}{11}$$

$$\frac{11}{r} M - 1 = r_0 \rightarrow \frac{11}{r} M = r_0 + 1 \rightarrow M = \frac{r(r_0 + 1)}{11}$$

$$-\frac{1}{r} < \frac{m-r}{a} < 1 \rightarrow -\frac{a}{r} < m-r < a \rightarrow \frac{1}{r} < m < 1$$

$$20 \quad \sin -\frac{\pi}{4} = -\frac{1}{\sqrt{2}}, \sin \frac{9\pi}{4} = 1$$

$$\frac{\sin 1.2 + k \cos 1.2}{\cos 1.2 + r \sin 1.2} = \frac{\sin(1.2 + 1.2) + k \cos(1.2 - 1.2)}{\cos(1.2 - 1.2) + r \sin(1.2 + 1.2)} = \frac{\cos 1.2 - k \sin 1.2}{-\cos 1.2 - r \sin 1.2}$$

$$\frac{1 - k \tan 1.2}{-1 - r \tan 1.2} = r \rightarrow 1 - k \tan 1.2 = -r - r^2 \tan 1.2 \rightarrow k \tan 1.2 + r + r^2 \tan 1.2 = 1$$

$$25 \quad (4 - k) \tan 1.2 = 1 \rightarrow 4 - k = \frac{1}{\tan 1.2} \rightarrow k = 4 - \frac{1}{\tan 1.2}$$

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

$$30 \quad \sin \theta = \frac{\sqrt{r}}{r}$$

$$\frac{\tan\left(\frac{r}{r} - \alpha\right) - \cot(r - \alpha)}{\cot\left(\frac{r}{r} - \alpha\right) + r \tan(r - \alpha)} = \frac{\tan \alpha + \cot \alpha}{\tan \alpha - r \tan \alpha} = \frac{-\sqrt{\lambda} - \frac{\sqrt{\lambda}}{\lambda}}{\sqrt{\lambda}} = \frac{-\frac{1}{\sqrt{\lambda}}}{\frac{\sqrt{\lambda}}{1}} = \frac{-1}{\lambda}$$

$$\frac{r}{\lambda} = \frac{r}{r} \rightarrow \frac{\frac{1}{\lambda}}{\frac{1}{\lambda}} = \frac{r}{r} \rightarrow r = \frac{r}{\lambda} \quad \text{Diagram: } \triangle ABC \text{ with } \angle C = 90^\circ, \angle A = \alpha, \angle B = 90^\circ - \alpha$$

$$\frac{r}{\lambda} \times r_A = \frac{q}{\lambda} \times r_B \rightarrow \frac{r_A}{r_B} = \frac{q}{r} \rightarrow \frac{S_A}{S_B} = \frac{r_A}{r_B} = \frac{q}{r}$$

$$\frac{\sqrt{r}}{AB} \times BC = \sqrt{r} \rightarrow BC = r \quad \text{Diagram: } \triangle ABC \text{ with } \angle B = 90^\circ, \angle A = \alpha, \angle C = 90^\circ - \alpha$$

$$\sin \alpha = \frac{r}{\sqrt{r}} \times \frac{r}{\sqrt{r}} = \frac{r}{r} = 1$$

$$r = \sqrt{r} \times \sqrt{r} = r$$

$$AN = \sqrt{r + q} = \sqrt{r} \quad \text{Diagram: } \triangle ABC \text{ with } \angle B = 90^\circ, \angle A = \alpha, \angle C = 90^\circ - \alpha$$

$$MN = \sqrt{r + q} = \sqrt{r} \quad \text{Diagram: } \triangle ABC \text{ with } \angle B = 90^\circ, \angle A = \alpha, \angle C = 90^\circ - \alpha$$

$$S_{AON} = \frac{r \times r}{r} = r \quad S_{BMA} = \frac{r \times r}{r} = r \quad S_{MCN} = \frac{1 \times 1}{r} = \frac{1}{r}$$

$$S_{AMN} = q - 4 \times \frac{1}{r} = r, q \rightarrow S_{AMN} = \frac{1}{r} \times \sqrt{r} \times \sqrt{r} \times \sin \alpha = r, q = \frac{q}{r}$$

$$\sin \alpha = \frac{q}{r}$$