

نام و نام خانوادگی شماره ۱۲ کلاس دوازدهم پاسخنامه تشریحی تکلیف

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

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$\lambda = \sqrt{\frac{r}{r}}$ $P_3 \text{ رکت } (\frac{\pi}{2})$

$۳۶۰ - ۱۱۰ = ۲۵۰$
 $\angle POP' = ۲۵۰$



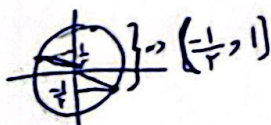
$\angle POP' = ۲۵۰$ $\angle POP' = ۲۵۰$

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$$\frac{\pi}{9} \leq \frac{1}{18}$$

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

$\frac{1}{r} < m-r \leq a \Rightarrow \boxed{\frac{1}{r} < m \leq a}$

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$$\frac{\cos(\frac{\pi}{4} + 10^\circ) + k \cos(\frac{\pi}{4} - 10^\circ)}{\cos(\pi - 10^\circ) + r \cos(\pi + 10^\circ)} = \frac{\cos 10^\circ + k \cos 10^\circ}{-\cos 10^\circ + r \cos 10^\circ} = \frac{1 + k \tan 10^\circ}{-1 - r \tan 10^\circ} = r$$

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

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

$$\frac{\cot \alpha + \cot \alpha}{\tan \alpha + r \tan \alpha} = \frac{r \cot \alpha}{-\tan \alpha} = \frac{r \cos \alpha}{-\frac{\sin \alpha}{\cos \alpha}} = \frac{-r \cos \alpha}{1 - \sin \alpha} = \frac{\frac{1}{r}}{\frac{1}{r}} = 1$$

$$\frac{q \pi}{\frac{1}{r} \pi} \times R_B = \frac{1 \cdot A}{\frac{1}{r} \pi} \times R_A \Rightarrow \frac{R_A}{R_B} = \frac{\frac{1}{r}}{\frac{1}{r}} = \frac{\frac{1}{r}}{\frac{1}{r}} = \frac{1}{r}$$

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

$$\frac{\angle A}{a} = \frac{\angle B}{b} = \frac{\angle C}{c} \Rightarrow \frac{\angle A}{1} = \frac{\angle B}{b} \Rightarrow b = \frac{\sqrt{c}}{b} \Rightarrow AD = r$$

$$S_{AMN} + S_{BPN} - S_{MNP} = 9 - \left(\frac{1}{r} + \frac{r}{r} + r\right) = 9 - \frac{1}{r} - r = \left(\frac{0}{r}\right)$$

$$S_{AMN} = \frac{1}{2} AM \times AN \times \sin \theta = \frac{1}{2} \times \sqrt{r} \times \sqrt{r} \times \sin \theta = \frac{1}{2} \times \sin \theta = \frac{\frac{1}{r}}{\frac{1}{r}} = \sin \theta$$

$$AM \Rightarrow BM^2 + BA^2 = AM^2 + 1^2 \Rightarrow AM = \sqrt{1^2}$$