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$$\frac{\sin(11+12) + k \cos(11-12)}{\cos(11-12) + r \sin(11+12)} = r$$

$$1 - 0.12k = -0.12 \Rightarrow -0.12k = -0.12 \Rightarrow k = 1$$

$$\frac{\cos(12) + (k \sin(12))}{-\cos(12) - k \sin(12)} \div \cos \Rightarrow \frac{1 - \tan(12)k}{-1 - \frac{1}{12} \tan(12)} \Rightarrow r$$

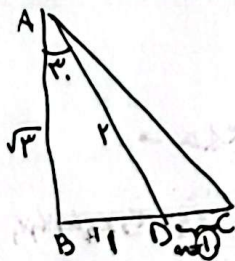
$$1 - \cos \alpha = r + (\cos \alpha) \Rightarrow \cos \alpha = \frac{-1}{r} \Rightarrow \sin \alpha = \frac{\sqrt{r^2 - 1}}{r}$$

$$\frac{\cot(x) + \cot(m)}{\tan(m) - r \tan(x)} \Rightarrow \frac{r \cot(m)}{-\tan x} \Rightarrow \frac{-r}{\sqrt{r}} = \frac{-9}{\frac{1}{\sqrt{r}}} \Rightarrow \boxed{\frac{-9}{\sqrt{r}}}$$

$$\cot(m) \Rightarrow \frac{\cos(m)}{\sin(m)} \Rightarrow \frac{-1}{\frac{1}{\sqrt{r}}} \Rightarrow \boxed{\frac{-r}{\sqrt{r}}} \quad \tan \alpha = \frac{\sin(m)}{\cos(m)} \Rightarrow \frac{\frac{\sqrt{r}}{r}}{\frac{-1}{\sqrt{r}}} = \frac{\sqrt{r}}{-r}$$

$$\frac{101}{120} \Rightarrow \boxed{\frac{101}{120}} \Rightarrow \frac{101}{120}$$

$$\frac{120}{9\pi} \times 1 \Rightarrow \boxed{\frac{1}{120}} \Rightarrow \frac{1}{120}$$

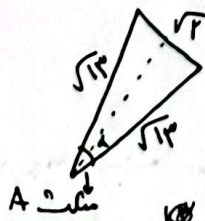


$$\frac{\sqrt{3} \sin \alpha}{r} \Rightarrow \sqrt{3} \Rightarrow \sin \alpha = \frac{\sqrt{3}}{r}$$

$$\boxed{\frac{\sqrt{3} \sqrt{r}}{r}} \Rightarrow \frac{\sqrt{3}}{\sqrt{r}}$$



$$\sin \alpha \Rightarrow r \sin \alpha \cos \alpha \Rightarrow r \times \frac{\sqrt{3}}{r} \times \frac{1}{r} \Rightarrow \frac{\sqrt{3}}{r} \Rightarrow \boxed{\frac{\sqrt{3}}{r}}$$



$$\frac{1}{2} ab \sin \alpha \Rightarrow \frac{13}{2} \sin \alpha \Rightarrow \frac{13}{2} \Rightarrow \boxed{\frac{13}{2}} \Rightarrow \sin \alpha \Rightarrow \frac{13}{2r}$$

$$S_A \sin \alpha \Rightarrow S_{\text{مربع}} - S_{\text{مثلث}} \Rightarrow 9 - 4 = 5 \Rightarrow \boxed{5}$$