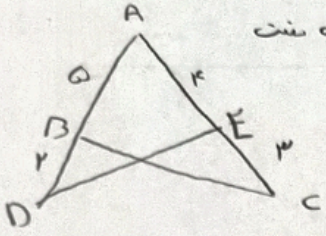


$S_D = \alpha \epsilon$   
 $S = \frac{1}{2} \times \frac{1}{2} \times r \times r' \times \sin \alpha = \alpha \epsilon \rightarrow r r' = \alpha \epsilon \quad k' = 11$   
 $k = \sqrt{5} \quad P = r \times \alpha \epsilon = \sqrt{5} \sqrt{r}$

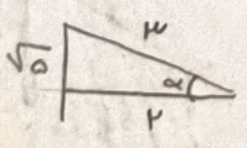


ساحت مثلث  $= \frac{1}{2} \times A \times B \times \sin \alpha$   
 $S_{ABC} - S_{ADE} = 1, 1 \sqrt{5} \rightarrow (\alpha \times \sqrt{5} \times \frac{1}{2} \times \sin \alpha) - (r \times \sqrt{5} \times \frac{1}{2} \times \sin \alpha) = 1, 1 \sqrt{5}$   
 $\sin \alpha \times \sqrt{5} \times \frac{1}{2} (\alpha - r) = 1, 1 \sqrt{5} \rightarrow \sin \alpha = \frac{1}{r} \rightarrow 1$   
 $\tan \alpha = \frac{1}{\sqrt{5}} \quad \left[ \frac{\sqrt{5}}{5} \right]$

$\frac{|\sin \alpha|}{\cos \alpha} = \frac{1}{\cos \alpha} \rightarrow \frac{|\sin \alpha|}{\cos} = \frac{\sin}{\cos} \rightarrow \frac{1}{\sqrt{\cos^2 \alpha}} = \frac{\sin \alpha}{\cos \alpha} = \frac{1 + \sin \alpha}{\cos \alpha}$   
 $\frac{1}{|\cos \alpha|} = \frac{\sin \alpha}{-|\cos \alpha|} = \frac{1 + \sin \alpha}{|\cos \alpha|} \rightarrow \sin \alpha > 0, \cos \alpha < 0 \rightarrow$

$\tan(\frac{\pi}{4} - \alpha) = \cot \alpha \rightarrow$    
 $m = \frac{1, 0 - 0}{0 - 1} = \frac{1}{-1} = -1 \rightarrow \tan \alpha = \cot \alpha = \frac{1}{1}$

$\frac{\cos(\pi - \alpha) - \sin(\pi - \alpha)}{\sin(\pi + \alpha) - \cos(\pi + \alpha)} = \frac{-\cos \alpha - \sin \alpha}{-\sin \alpha - \cos \alpha} = \frac{-\cos \alpha - \sin \alpha}{-\sin \alpha - \cos \alpha} = 1$



$\frac{\sin(\frac{\pi}{4} + \alpha) - \sin(\alpha - \pi)}{|\tan \alpha - 1|} = \frac{\cos \alpha + \sin \alpha}{|\tan \alpha - 1|} = \frac{r + \sqrt{5}}{r - 1}$   
 $\frac{4 + \sqrt{5}}{1} \cdot \frac{r + \sqrt{5}}{1} = \frac{10 - \epsilon \sqrt{5}}{r}$

$$\sin^r + \cos^r = 1 \rightarrow (\sqrt{\cos \alpha})^r + \cos^r \alpha = 1 \rightarrow \sqrt{\cos \alpha} + \cos^r \alpha = 1 \rightarrow \cos^r \alpha = \frac{1}{\sqrt{\cos \alpha}} \rightarrow \cos \alpha = \frac{1}{\sqrt{5}}$$

پاسخ:  $\boxed{-\frac{1}{\sqrt{5}}}$

tan زاویه  $\rightarrow \sqrt{r} \rightarrow \frac{r \cdot \sqrt{m}}{m^r - 1} \cdot \sqrt{r} \rightarrow \sqrt{r} m^r - \sqrt{r} = -r m \rightarrow \sqrt{r} m^r + r m - \sqrt{r} = 0$

$$m^r + r m - r = 0 \cdot (m+r)(m-1) = 0 \rightarrow m = -\sqrt{\frac{r}{r}} = -\sqrt{r} \rightarrow m = \frac{1}{\sqrt{r}} \rightarrow \frac{1}{\sqrt{r}} + \sqrt{r} = \frac{1+r}{\sqrt{r}}$$

$$\sqrt{\frac{r}{r}} = \frac{\sqrt{r}}{r}$$

$-\frac{\pi}{2} < k < \frac{\pi}{2} \rightarrow -\frac{\pi}{2} < k < \frac{\pi}{2} + \frac{\pi}{2} \rightarrow \frac{\pi}{2} < k < \frac{3\pi}{2} \rightarrow \tan \rightarrow \frac{\pi}{2} < \tan \frac{\pi}{2} - k < \frac{3\pi}{2} \rightarrow$

$\frac{1-m}{r+m} \rightarrow \frac{-r-1}{-1+1} \rightarrow (-1, 1)$

قریبی نشد

$$\tan(\pi_i) \times \cos(\pi_i) + \tan(\pi_i) \sin(\pi_i) = -\sqrt{r} \times \frac{\sqrt{r}}{r} + -\sqrt{r} \times \frac{\sqrt{r}}{r}$$

$$\tan(\pi_i) \times \sin(\pi_i)$$

$$\frac{r}{r} - \frac{r}{r} = 0$$