

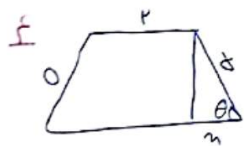
به نام خدا زهرا یزدانیان یازدهم خنجر B

$$\perp \cot \alpha = \frac{\cos \alpha}{|\sin \alpha|} \rightarrow \sin \alpha > 0 \text{ ①} \quad \frac{1}{|\cos \alpha|} - \frac{\sin \alpha}{\cos \alpha} = \frac{1 - \sin \alpha}{|\cos \alpha|} \rightarrow \cos \alpha > 0 \text{ ②}$$

① و ② → تجیه اول

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$$\perp \tan^2 + 2 \tan + 1 = 0 \rightarrow \tan = \frac{-2 \pm \sqrt{4}}{2} \rightarrow \frac{-2 + \sqrt{4}}{2} \rightarrow \text{CQ}$$



$$\cos \alpha = 0.4 \rightarrow \frac{n}{m} = 0.4 \rightarrow m = 2.5$$

$$\frac{1}{2} \times f \times (10) = \boxed{20}$$

$$a \quad \tan\left(\frac{3\pi}{4} + 18\right) \tan(-\pi + 18) - \sin(2\pi + 18) \cos\left(\frac{3\pi}{4} - 18\right)$$

$$(-\cot 18) \times (+\tan 18) - (-\sin 18) \cos(-\sin 18) = -1 - \sin^2 18$$

$$9. \sqrt{r} \times \left(-\frac{\sqrt{r}}{r}\right) \times \sin\left(\frac{r\pi}{r} - rV\right) - \sqrt{r} \times \frac{\sqrt{r}}{r} \times \cos\left(\frac{r\pi}{r} - rV\right)$$

$$\frac{r}{r} \cos(rV) + \frac{r}{r} \cos(rV) \rightarrow \boxed{\frac{0}{r}}$$

✓

$$11. \frac{1 - \sin m}{1 + \sin m} = f \rightarrow 1 - \sin m = f + f \sin m \rightarrow \begin{cases} \sin m = -\frac{f}{0} \\ \cos m = -\frac{f}{0} \end{cases}$$

$$\tan \frac{m}{r} = \frac{\sin m}{1 + \cos m} \rightarrow \frac{-\frac{r}{0}}{\frac{1}{0}} = \boxed{-r}$$

$$9. \frac{\sin \theta}{1 - \cos \theta} = \frac{1 + \cos \theta}{\sin \theta} = \cot \frac{\theta}{r} \rightarrow \frac{\sin \theta}{1 - \cos \theta} + \frac{1 + \cos \theta}{\sin \theta} = r \cot \frac{\theta}{r} \rightarrow \boxed{r = r}$$

$$10. \cos\left(\frac{r\pi}{r} + \alpha\right) = \cos\left(\frac{r\pi}{r}\right) \cos \alpha - \sin\left(\frac{r\pi}{r}\right) \sin \alpha = \underbrace{\frac{-\sqrt{r}}{r} \times \frac{-\sqrt{r}}{10}}_{\frac{1r}{r0}} - \frac{\sqrt{r}}{r} \times \frac{\sqrt{r}}{1} = \frac{r}{r0} - \frac{r}{r0} = \boxed{\frac{0}{10}}$$