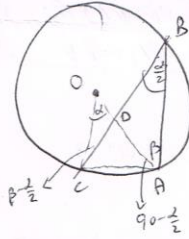


2.88
6



$\triangle ABC:$ $\frac{AB}{\sin(\beta + 90)} = 2R$

$AB = 2R \sin(\beta + 90)$

$\triangle ABD:$ $\frac{AD}{\sin \frac{\beta}{2}} = \frac{AB}{\sin(180 - \beta - \frac{\beta}{2})}$

$AD = \frac{2R \sin(\beta + 90) \sin \frac{\beta}{2}}{\sin(\beta + \frac{\beta}{2})}$

$\triangle ODC:$ $\frac{OD}{\sin(\beta - \frac{\beta}{2})} = \frac{OC}{\sin(180 - \beta - \frac{\beta}{2})}$

$OD = \frac{R \sin(\beta - \frac{\beta}{2})}{\sin(\beta + \frac{\beta}{2})}$

$$\frac{AD}{OD} = \frac{\frac{2R \sin(\beta + 90) \sin \frac{\beta}{2}}{\sin(\beta + \frac{\beta}{2})}}{\frac{R \sin(\beta - \frac{\beta}{2})}{\sin(\beta + \frac{\beta}{2})}} = \frac{2 \sin(\beta + 90) \sin \frac{\beta}{2}}{\sin(\beta - \frac{\beta}{2})} = \frac{2 \sin \frac{\beta}{2} \cos \beta}{\sin(\beta - \frac{\beta}{2})}$$

$110 < \beta < 90$ असो $\beta > 0$ जो $\beta - \frac{\beta}{2}$ ची संज्ञा, $\beta < 90$ जो $\cos \beta$ ची संज्ञा