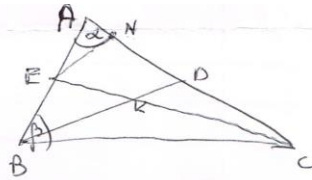


2.86
6



$$\frac{CK}{KE} = \frac{CD}{DN} = \frac{AD}{DN} \quad \text{wegen } CD \parallel EN \quad (KD \parallel EN)$$

$$CD = AD \quad (\text{da } AD \parallel EN)$$

$$\frac{AN}{ND} = \frac{AE}{EB} \quad \leftarrow \text{wegen } EN \parallel BD \quad \text{wegen } \triangle AEN \sim \triangle ABD$$

$$\frac{AE}{EB} = \frac{AC}{BC} \quad \text{wegen } EN \parallel BD \quad \text{wegen } \triangle AEN \sim \triangle ABD$$

$$\frac{AC}{BC} = \frac{2R \sin \beta}{2R \sin \alpha} = \frac{\sin \beta}{\sin \alpha}$$

$$\left. \begin{aligned} \frac{AC}{\sin \beta} &= 2R \rightarrow AC = 2R \sin \beta \\ \frac{BC}{\sin \alpha} &= 2R \rightarrow BC = 2R \sin \alpha \end{aligned} \right\}$$

$$\frac{CK}{KE} = \frac{AD}{DN} \rightarrow \frac{AN}{DN} = \frac{AN+DN}{DN} = \frac{AD}{DN} \quad \text{wegen } \triangle AEN \sim \triangle ABD$$

$$= \frac{x(\sin \beta + \sin \alpha)}{x \sin \alpha} = \frac{2 \sin \frac{\alpha+\beta}{2} \cos \frac{\alpha-\beta}{2}}{\sin \alpha}$$