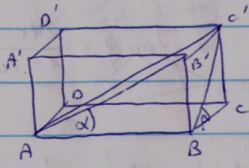
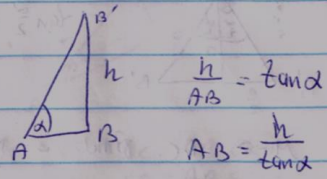


4.17
6



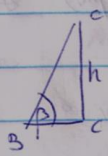
$\triangle ABB'$



$$\frac{h}{AB} = \tan \alpha$$

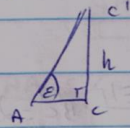
$$AB = \frac{h}{\tan \alpha}$$

$\triangle BCC'$



$$\frac{C'C}{BC} = \tan \alpha \rightarrow BC = \frac{h}{\tan \alpha}$$

$\triangle ACC'$



$$AC = \sqrt{AB^2 + BC^2} = \sqrt{h^2 \left(\frac{1}{\tan^2 \alpha} + \frac{1}{\tan^2 \beta} \right)}$$

$$= h \sqrt{\frac{\tan^2 \alpha + \tan^2 \beta}{\tan^2 \alpha \tan^2 \beta}}$$

$$\cot \epsilon = \frac{AC}{h} = \sqrt{\frac{\tan^2 \alpha + \tan^2 \beta}{\tan^2 \alpha \tan^2 \beta}} = \sqrt{\cot^2 \alpha + \cot^2 \beta}$$