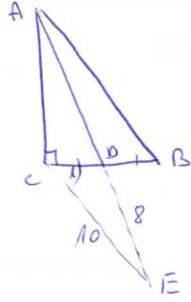


$\frac{16}{1079}$



$$\textcircled{1} \quad \frac{AC}{BC} = \tan 73$$

$$AC = BC \cdot \tan 73 = 2a \cdot 3.27 = 6.54a$$

$$\tan \angle ADC = \frac{AC}{CD} = \frac{6.54a}{a}$$

$$\boxed{\angle ADC = 81.31^\circ}$$

$$\textcircled{2} \quad \frac{\sin \angle CDE}{\sin \angle C_1} = \frac{DE}{\sin \angle CDE}$$

$$\angle C_1 = 52.26 \quad \leftarrow \quad \frac{8}{\sin \angle C_1} = \frac{10}{\sin(80 - 81.31)}$$

$$\frac{CD}{\sin \angle C_1 E} = \frac{10}{\sin \angle CDE}$$

$$\frac{a}{\sin(180 - 52.26 - 98.69)} = \frac{10}{\sin(98.69)} \quad \rightarrow \quad a = 4.912$$

$$\boxed{CB = 2a = 9.824}$$