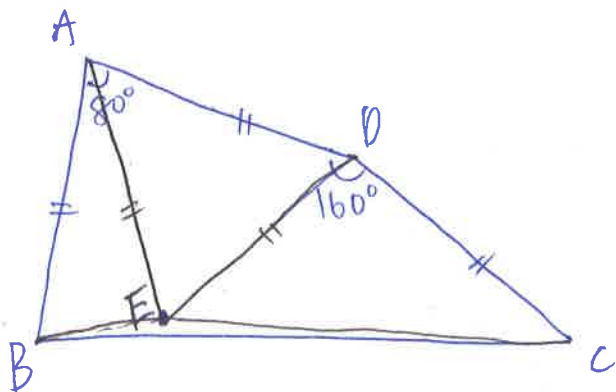


北一女中 104 學年度《數戰數決》有獎徵答活動

班別：二年書班 座號：36 號 姓名：趙子雅

題號：5-1 頁碼/總頁數：_____ (如果只有一頁，可不填)

10 ☆



以 AD 為邊長，向下作正△。

$$\because \overline{AB} = \overline{AE}$$

$$\angle BAE = 80^\circ - 60^\circ = 20^\circ$$

$$\therefore \angle AEB = \frac{180^\circ - 20^\circ}{2} = 80^\circ$$

$$\because \overline{AC} = \overline{AD}$$

$$\angle ADC = 160^\circ - 60^\circ = 100^\circ$$

$$\angle DEC = \frac{180^\circ - 100^\circ}{2} = 40^\circ$$

$$\Rightarrow \angle BEA + \angle AED + \angle DEC = 80^\circ + 60^\circ + 40^\circ = 180^\circ \Rightarrow E \text{ 在 } \overline{BC} \text{ 上}$$

$$\text{故 } \angle ABC = \angle AEB = 80^\circ$$

Ans: 80°