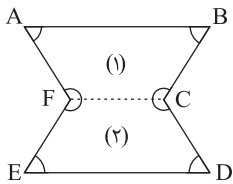
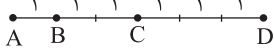




پاسخ سؤال ۱:

برای هر چهارضلعی $2 \times 180^\circ = 360^\circ$ برای هر شش ضلعی $2 \times 360^\circ = 720^\circ$

پاسخ سؤال ۲:



$$\overline{BC} = \frac{2}{3} \overline{AC}$$

$$\overline{AB} + \overline{BC} = \frac{3}{6} \overline{AD}$$

$$\overline{AD} - \overline{BD} = \frac{1}{3} \overline{BC}$$

$$\overline{BD} - \overline{BC} = \frac{3}{5} \overline{BD}$$

پاسخ سؤال ۳:

$$x\hat{A}y, x\hat{A}z, x\hat{A}w, y\hat{A}z, y\hat{A}w, z\hat{A}w$$

پاسخ سؤال ۴:

$$x = 180^\circ - (90^\circ + 35^\circ) = 180^\circ - 125^\circ = 55^\circ$$

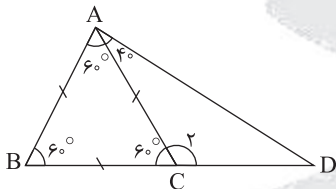
متقابل به رأس $x = 40^\circ$

$$y = 180^\circ - 40^\circ = 140^\circ$$

پاسخ سؤال ۵:

$$\begin{aligned} \hat{B} &= \hat{C} & \overline{AO} &= \overline{DO} \\ \hat{O}_1 &= \hat{O}_r & \overline{CO} &= \overline{BO} \\ \hat{A} &= \hat{D} & \overline{AB} &= \overline{CD} \end{aligned}$$

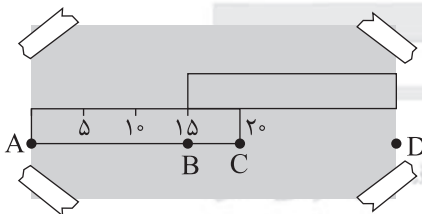
پاسخ سؤال ۶:



$$\hat{C}_r = 180^\circ - 60^\circ = 120^\circ$$

$$\hat{D} = 180^\circ - (60^\circ + 40^\circ + 60^\circ) = 20^\circ$$

پاسخ سؤال ۷:



$$\overline{AD} = \overline{AB} + \overline{BD} - \overline{BC} = 20 + 20 - 5 = 35 \text{ سانتی متر}$$

پاسخ سؤال ۸:

$$\begin{aligned} \hat{B}_r + \hat{C} &= 90^\circ \Rightarrow \hat{B}_r + \hat{C} = \hat{A} + \hat{C} = \hat{B}_r = \hat{A} \\ \hat{A} + \hat{C} &= 90^\circ \end{aligned}$$