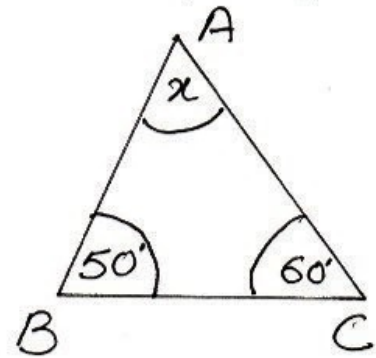


1(i) In $\triangle ABC$

$$\angle A + \angle B + \angle C = 180^\circ \quad (\text{angle sum prop. of } \triangle)$$

$$x + 50 + 50 = 180$$

$$\begin{aligned} \Rightarrow x &= 180 - 100 \\ &= 80^\circ \end{aligned}$$

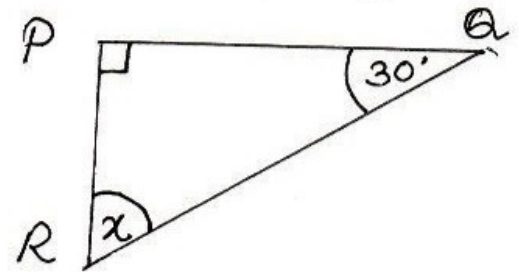


In $\triangle QPR$

1(ii) $\angle P + \angle Q + \angle R = 180^\circ$ (exterior \angle prop. of \triangle)

$$90^\circ + 30^\circ + x = 180^\circ$$

$$\begin{aligned} \Rightarrow x &= 180 - 120 \\ &= 60^\circ \end{aligned}$$



1(iii) In $\triangle XYZ$

$$\angle X + \angle Y + \angle Z = 180^\circ$$

$$30^\circ + 110^\circ + x = 180^\circ$$

$$\begin{aligned} \Rightarrow x &= 180 - 140 \\ &= 40^\circ \end{aligned}$$

angle sum prop of \triangle)

