

Activity Worksheet

Challenging brain

Sub : Mathematics

Grade: IX

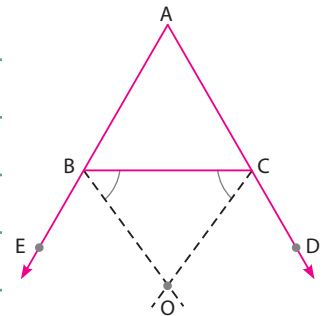
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Project Work

1. In $\triangle ABC$ (Fig. 4.14), the sides AB and AC of $\triangle ABC$ are produced to point E and D respectively. If bisectors BO and CO of $\angle CBE$ and $\angle BCD$ respectively meet at point O, then prove that $\angle BOC = 90^\circ + \frac{1}{2} \angle A$.



Project Work

1. In Fig. 4.15, the sides QR of $\triangle PQR$ is produced to a point S. If the bisector of $\angle PQR$ and $\angle PRS$ meet at point T, then prove that $\angle QTR = \frac{1}{2} \angle QPR$.

