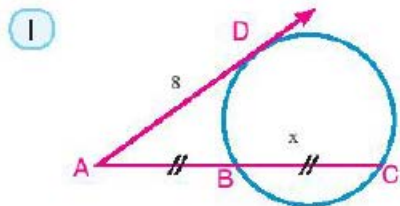
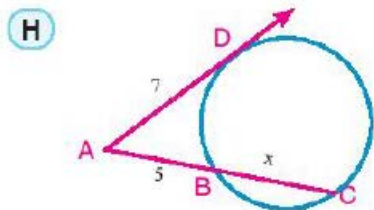
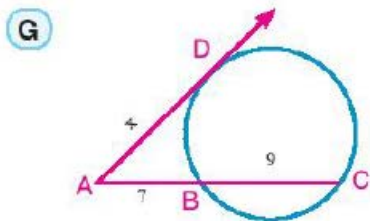
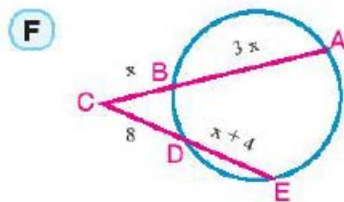
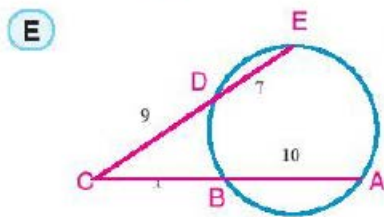
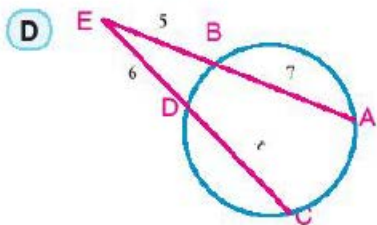
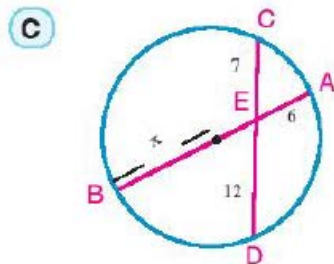
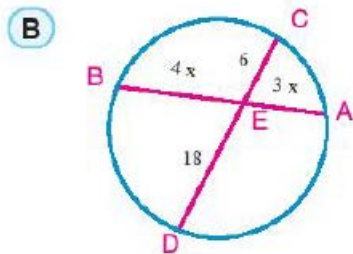
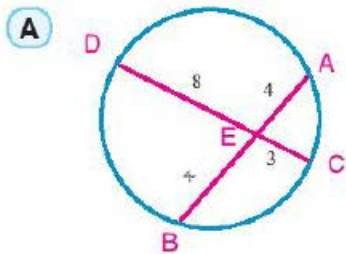


- 1 Use the calculator or mental math to find the numerical value of  $x$  in each of the following figures. (lengths are measured in centimetres)



**5** In the figure opposite: M and N are two tangential circles at E.

$\overrightarrow{AC}$  touches the circle M at B, and touches the circle N at C,  $\overrightarrow{AE}$  intersects the two circles at F and D respectively,

where  $AF = 4\text{cm}$ ,  $FE = 5\text{cm}$ ,  $ED = 7\text{cm}$ .

Prove that B is the midpoint of  $\overline{AC}$

