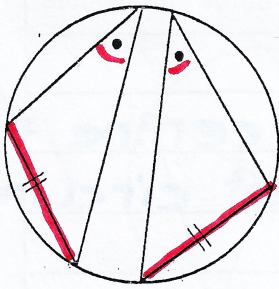
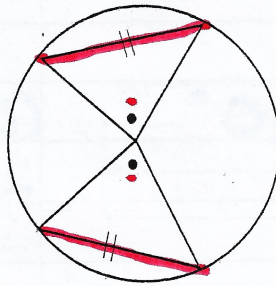


COROLLARIES ON THEOREM 4

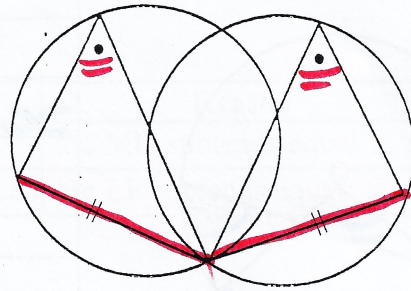
1. Equal chords subtend equal angles at the circumference



2. Equal chords subtend equal angles at the centre



3. Equal chords of equal circles subtend equal angles at the circumference.

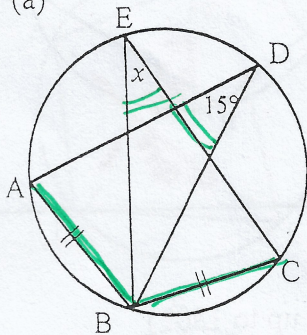


So!! if there are = chords
the $\angle$'s formed at circumference/
centre will be =

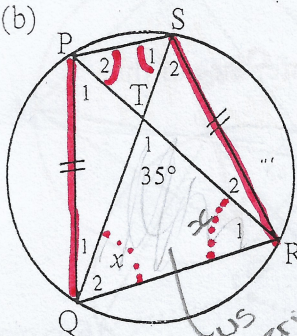
EXERCISE 5

1. Calculate the unknown angles.

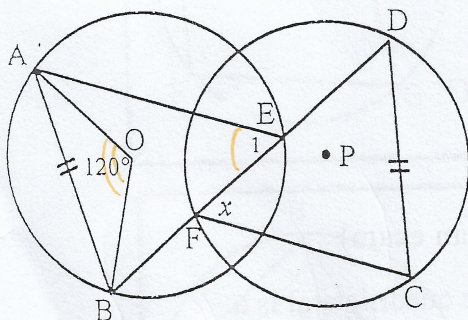
(a)



(b)



2. Two equal circles are given.
O is the centre of circle ABE. Calculate the value of x .
Reasons must be given.



Statement	Reason
$x = 15^\circ$	L's subtended = chords
$\hat{Q}_2 = \hat{R}_1 = x$	L's subtended = chords
in $\triangle TQR$:	
$35^\circ + x + x = 180^\circ$	int L's of $\triangle$
$2x = 145^\circ$	
$x = 72.5^\circ$	
$\hat{E}_1 = 60^\circ$	Lat centre = $2 \times$ Lat circumf.
$\therefore x = 60^\circ$	L's subtended = chords