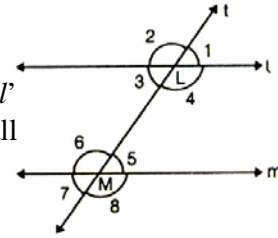


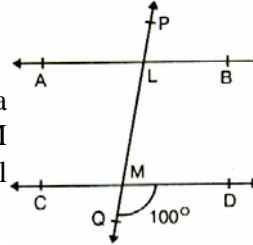
VII Class

PARALLEL LINES

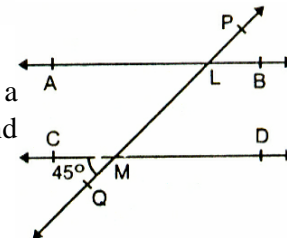
1. In the adjoining figure, a transversal 't' cuts two parallel line 'l' and 'm' at the points L and M respectively. If $\angle 1 = 55^\circ$, find all other angles.



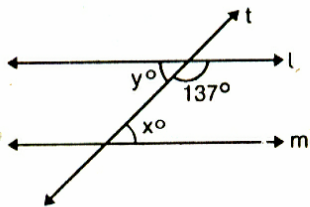
2. In the adjoining figure, $AB \parallel CD$ and a transversal PQ cuts them at L and M respectively. If $\angle QMD = 100^\circ$, find all other angles in the figure.



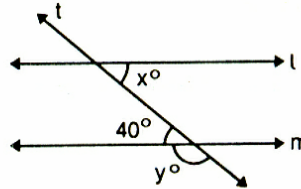
3. In figure, AB and CD are two parallel lines intersected by a transversal PQ at L and M respectively. If $\angle CMQ = 45^\circ$, find $\angle ALM$ and $\angle DMQ$.



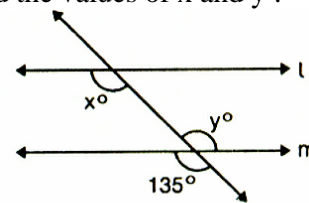
4. In each of the given figures, it is being given that $l \parallel m$, find the values of x and y :



(i)

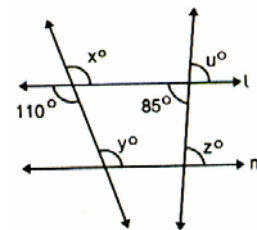


(ii)

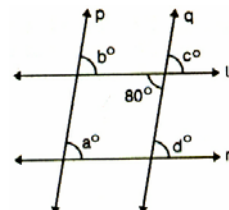


(iii)

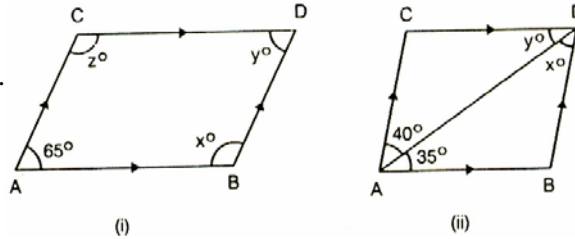
5. In figure, $l \parallel m$. Find the values of x, y, z, u. Give reasons.



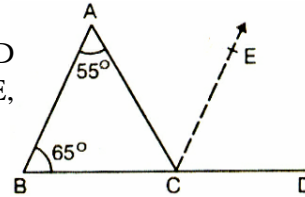
6. In figure, $l \parallel m$ and $p \parallel q$. Find the values of a, b, c, d.



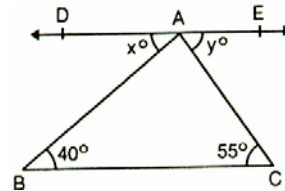
7. In figure, $AB \parallel CD$ and $AC \parallel BD$. Find the values of x , y , z .



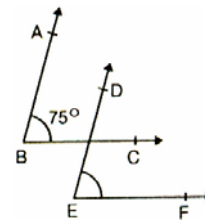
8. In figure, side BC of triangle ABC has been produced to D and $CE \parallel BA$. If $\angle ABC = 65^\circ$, $\angle BAC = 55^\circ$, find $\angle ACE$, $\angle ECD$ and $\angle ACD$.



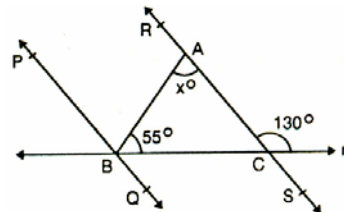
9. In figure, $DE \parallel BC$. Find the values of x and y .



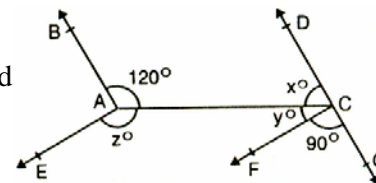
10. In figure, the corresponding arms of $\angle ABC$ and $\angle DEF$ are parallel, as shown in the figure. If $\angle ABC = 75^\circ$, find $\angle DEF$.



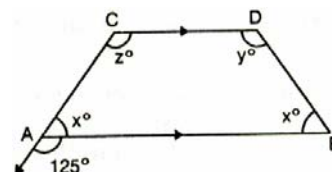
11. In figure, $PQ \parallel RS$. Find the value of x . (Hint : $\angle PBA = 75^\circ$)



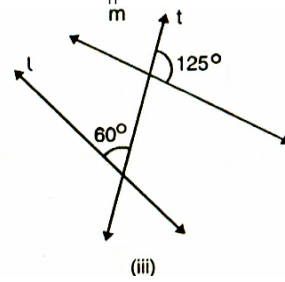
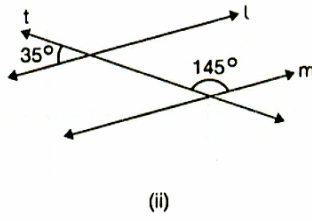
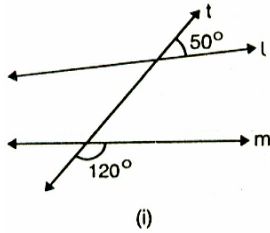
12. In figure, $AB \parallel CD$ and $AE \parallel CF$; $\angle FCG = 90^\circ$ and $\angle BAC = 120^\circ$. Find the values of x , y and z .



13. In figure, $AB \parallel CD$. Find the values of x , y , z .



14. In figure, two lines l and m are cut by a transversal t . Find whether $l \parallel m$. Give reasons.



15. In figure, $AB \parallel CD$ and $CD \parallel EF$. Is $AB \parallel EF$? Give reasons.

