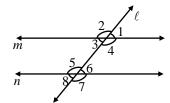
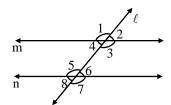
LINES AND ANGLES

PARALLEL LINE, TRANSVERSAL LINE AND THEIR THEOREM EXERCISE

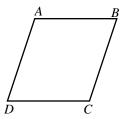
Q.1 In figure m || n and $\angle 1 = 65^{\circ}$. Find $\angle 5$ and $\angle 8$.



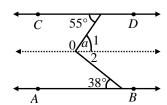
Q.2 In figure m || n and angles 1 and 2 are in the raito 3 : 2. Determine all the angles from 1 to 8.



Q.3 In figure AB || DC and AD || BC. Prove that \angle DAB = \angle DCB.

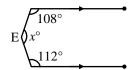


Q.4 In figure AB || CD. Determine ∠a

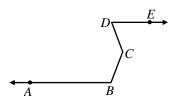


Q.5 In figure AB || CD. Determine X.

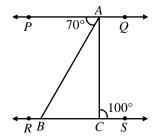
Q.6 In figure AB || CD. Find the value of x.



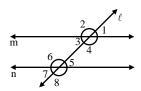
Q.7 In Figure AB || DE. Prove that \angle ABC + \angle BCD = 180° + \angle CDE.



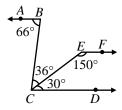
Q.8 In Figure PQ || RS, \angle PAB = 70° and \angle ACS = 100°. Determine \angle ABC, \angle BAC and \angle CAQ.



Q.9 In Figure if $\angle 2 = 120^{\circ}$ and $\angle 5 = 60^{\circ}$, show that m || n.



Q.10 In figure show that AB || EF.



CLASS 9

ANSWER KEY

1.
$$\angle 5 = 115^{\circ}$$
 and $\angle 8 = 65^{\circ}$.

2.
$$\angle 1 = 108^{\circ}$$
, $\angle 2 = 72^{\circ}$, $\angle 3 = 108^{\circ}$, $\angle 4 = 72^{\circ}$, $\angle 5 = 108^{\circ}$ $\angle 6 = 72^{\circ}$, $\angle 7 = 108^{\circ}$ and $\angle 8 = 72^{\circ}$.

4.
$$\angle a = 93^{\circ}$$

5.
$$x = 285^{\circ}$$

6.
$$x = 140^{\circ}$$

8.
$$\angle ABC = 70^{\circ}$$
, $\angle BAC = 30^{\circ}$ and $\angle CAQ = 80^{\circ}$.