

JSUNIL TUTORIAL

Punjabi colony gali no. 01

Class IX

Lines and angles

Date

Q1. Define and the following terms: (i) Angle (ii) Obtuse angle (iii) Complementary angles (iv) Supplementary angles (v) Adjacent angles

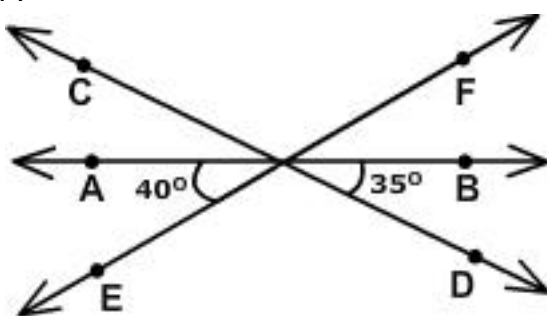
Q2. Define and draw the following: (i) Linear pair of angles (ii) Vertically opposite angles

Q3. Find the complement of the following angles: (i) 58° (ii) 45°

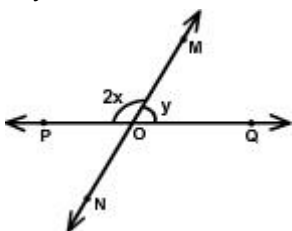
Q4. Find the supplement of the following angles: (i) 90° (ii) 120°

Q5. Two supplementary angles are in the ratio 3:2. Find the angles.

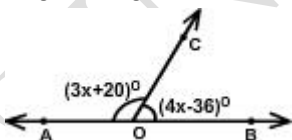
Q6. In the given figure, lines AB, CD and EF intersect at O. Find the measures of $\angle AOC$ and $\angle COF$.



Q7. In the given figure PQ and MN intersect at O (i) Determine y when $x = 60$ (ii) Determine x when $y = 40$



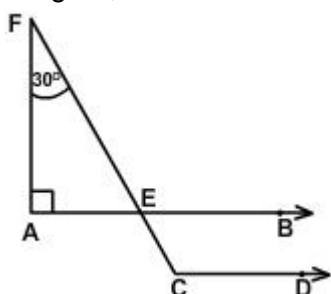
Q8. In the given figure, what value of x will make AOB, a straight line?



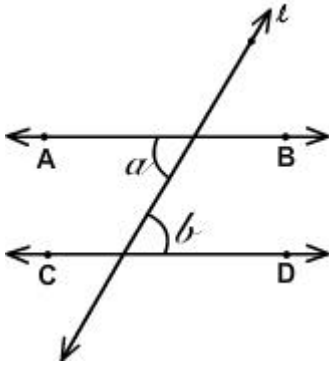
Q9. One of the four angles formed by two intersecting lines is a right angle. Show that the other three angles will also be right angles.

Q11. Prove that the two lines which are both parallel to the same line are parallel to one another.

Q13. In the figure, $AB \parallel CD$ and $\angle F = 30^\circ$ Find $\angle ECD$.

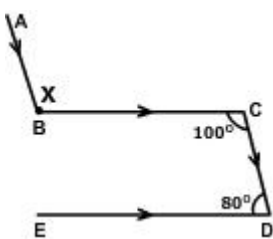


Q14. In the given figure, if $a:b$ are in $3:2$ and $AB \parallel CD$, find a .

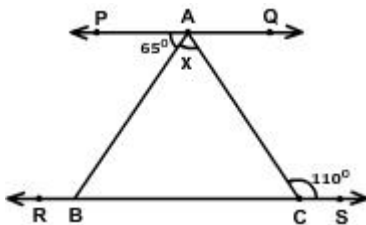


Q15. Two parallel lines are cut by a transversal such that one of the interior angles is 57° . Find each of the interior angles.

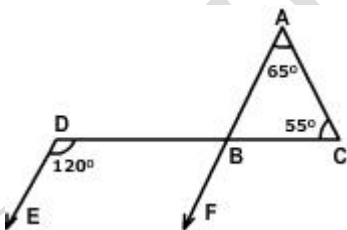
Q16. In the given figure, $AB \parallel CD$ and $BC \parallel ED$. Find the value of x .



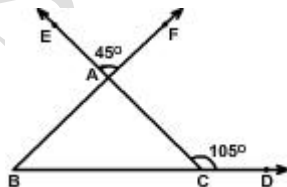
Q17. In the given figure, $PQ \parallel RS$, find the value of x .



Q18. In the given figure, prove that $BF \parallel DE$.



Q19. The sides BC , CA and BA of a triangle ABC have been produced to D , E and F respectively. If $\angle ACD = 105^\circ$ and $\angle EAF = 45^\circ$. Find all the angles of triangle ABC .



Q20. In triangle PQR , $\angle P : \angle Q : \angle R = 3:2:1$ and $PR \parallel RD$. Find the measure of $\angle ERD$.

