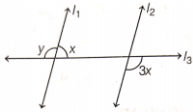


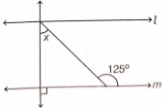
Chapter-Lines and Angles

1. In the given figure, if $l_1 \parallel l_2$, then y is equal to



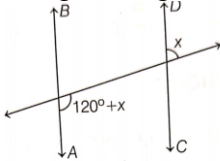
- a) 100° b) 120° c) 135° d) 150°

2. In the given figure, if lines l and m are parallel, then the value of x is



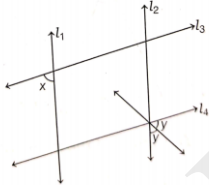
- a) 35° b) 55° c) 65° d) 75°

3. In the given figure, if $AB \parallel CD$, then the value of x is



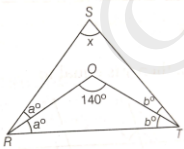
- a) 20° b) 30° c) 45° d) 60°

4. In the given figure, if $l_1 \parallel l_2$ and $l_3 \parallel l_4$. What is y in terms of x ?



- a) $90+x$ b) $90+2x$ c) $90-\frac{x}{2}$ d) $90-2x$

5. In the given figure ΔRST , what is the value of x ?



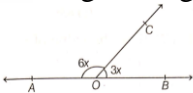
- a) 40° b) 90° c) 80° d) 100°

6. If the supplement of an angle is two-third of itself, then determine the angle and its supplement.

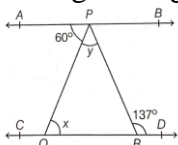
7. If an angle is 16° more than its complement. Then find its measure.

8. Two angles measure $(55^\circ + 3a)$ and $(115^\circ - 2a)$. if each is supplement of the other then calculate the value of a .

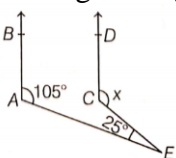
9. In the given figure, $\angle AOC$ and $\angle BOC$ form a linear pair. Determine the value of x .



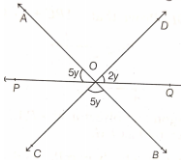
10. In the given figure, if $AB \parallel CD$, $\angle APQ = 60^\circ$ and $\angle PRD = 137^\circ$, then find the values of x and y .



11. In the given figure, if $AB \parallel CD$, then find the value of x

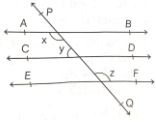


12. If $\angle AOP=5y$, $\angle QOD=2y$ and $\angle BOC=5y$ in the given figure, find the value of y

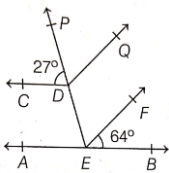


13. If one of the angles of a triangle is 130° , then find the angle between the bisectors of the other two angles.

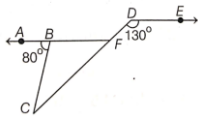
14. In the given figure, if $AB \parallel CD$, $CD \parallel EF$ and $y:z=3:7$, then find the value of $(x+y)$ and $(x+z)$



15. In the given figure, $EF \parallel DQ$ and $AB \parallel CD$. If $\angle FEB=64^\circ$ and $\angle PDC=27^\circ$, then find $\angle PDQ$, $\angle AED$ and $\angle DEF$.

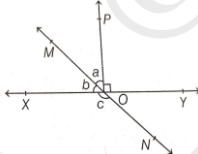


16. In the given figure, $AB \parallel DE$. Find the value of $\angle BCF$.

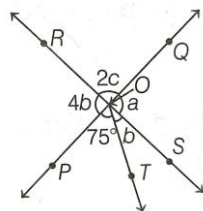


17. It is given that $\angle ABC=68^\circ$ and AB is produced to a point P . Draw a figure from the given information. If ray BQ bisects $\angle CBP$, then find $\angle ABQ$ and reflex $\angle QBP$.

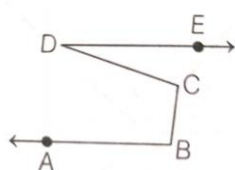
18. In the given figure, lines XY and MN intersect at O . if $\angle POY=90^\circ$ and $a:b=2:3$ then find the value of c .



19. In the given figure, two straight line PQ and RS intersect each other at O . if $\angle POT=75^\circ$, then find the value of a , b and c .



20. In the given figure, $AB \parallel DE$. Prove that $\angle ABC + \angle BCD = 180^\circ + \angle CDE$



21. $ABCDE$ is a regular pentagon and bisector of $\angle BAE$ meets CD at M . if bisector of $\angle BCD$ meets AM at P , then find $\angle CPM$.

22. If the sides of an angle are respectively parallel to the sides of another angle, then prove that these angles are either equal or supplementary.