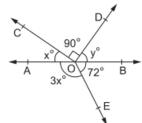
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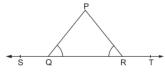
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Worksheet - I Chapter-6 LINES & ANGLES

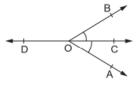
- 1. Two supplementary angles are in the ratio 3:2. Find the angles.
- 2. Find the measure of an angle which is 32° less than its supplement.
- 3. The supplement of an angle is one third of the given angle. Find the measures of the given angle and its supplement.
- 4. Find the angle whose complement is one third of its supplement.
- 5. Find the value of x for which the angles $(2x 5)^{\circ}$ and $(x 10)^{\circ}$ are the complementary angles 1.
- 6. Two adjacent angles on a straight line are in the ratio 5:4. Find the measure of each one of these angles.
- 7. Calculate $\angle AOC$, $\angle BOD$ and $\angle AOE$ in the adjoining figure, it is being given that $\angle COD = 90^\circ$, $\angle BOE = 72^\circ$ and AOB is a straight line



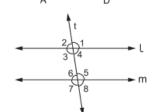
8. In the given fi gure, if $\angle PQR = \angle PRQ$, then prove that $\angle PQS = \angle PRT$.



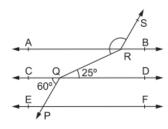
9. In the given figure, ray OC is the bisector of $\angle AOB$ and OD is the ray opposite to OC. Show that $\angle AOD = \angle BOD$.



10. Two lines AB and CD intersect at a point O such that $\angle BOC + \angle AOD = 280^{\circ}$, as shown in the figure. Find all the four angles.



- 11. In the given figure, I || m and a transversal t cuts them. If $\angle 1$: $\angle 2 = 5$: 4, find the measure of each of the marked angles.
- 12. In the given figure, AB \parallel CD \parallel EF, PQ \parallel RS, $\angle RQD = 25^{\circ}$ and \angle CQP = 60°. Find \angle QRS.



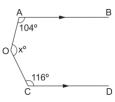


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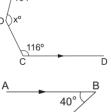
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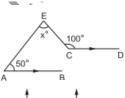
13. In the given figure, AB || CD and $\angle AOC = x$. If $\angle OAB = 104^{\circ}$ and $\angle OCD = 116^{\circ}$, find the value of x.



14. In the given figure, AB \parallel CD, \angle ABO = 40°, \angle CDO = 35°. Find the value of the reflex ∠BOD and hence the value of x.

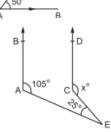


15. In the given figure, AB \parallel CD , $\angle BAE = 50^{\circ}$, $\angle AEC = x$ and $\angle ECD = 100^{\circ}$ Find the value of x.

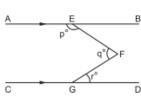


x_©

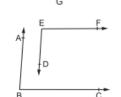
16. In the given figure, AB || CD , \angle EAB = 105°, \angle AEC = 25° and \angle ECD = x°. Find the value of x.



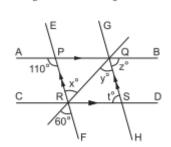
17. In the given figure, AB \parallel CD . Prove that p + qr = 180.



18. In the given figure, BA \parallel ED and BC \parallel EF . Show that \angle ABC + \angle DEF = 180



19. In the given figure, AB \parallel CD and EF \parallel GH . Find the values of x, y, z and t.





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