Chapter 6

ASSIGNMENT

OBJECTIVE 6.1

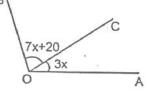
1.	If two lines intersected by a transversal, then each pair of corresponding angles so formed is "			
	(A) Equal	(B) Complementary	(C) Supplementary	(D) None of these
2.	Two parallel lines have :			
	(A) a common point	•	(B) two common point	
	(C) no any common point		(D) infinite common points	
3.	An angle is 14^0 more than its complementary angle then angle is :			
	(A) 38°	(B) 52 ⁰	(C) 50°	(D) none of these
4.	The angle between the bisectors of two adjacent supplementary angles is:			
	(A) acute angle	(B) right angle	(C) obtuse angle	(D) none of these
5.	If one angle of triangle is equal to the sum of the other two then triangle is :			
	(A) acute a triangle		(B) obtuse triangle	
	(C) right triangle		(D) none	
6.	X lines in the interior of $\angle BAC$. If $\angle BAC = 70^{\circ}$ and $\angle BAX = 42^{\circ}$ then $\angle XAC =$			
	(A) 28°	(B) 29 ⁰	(C) 27°	(D) 30°
7.	If the supplement of an angle is three times its complement, then angle is:			
	(A) 40°	(B) 35 ⁰	(C) 50°	(D) 45 ⁰
8.	Two angles whose measures are a & b are such that $2a - 3b = 60^0$ then $\frac{4a}{5b} = ?$ If they form a linear			
	(A) 0	(B) $\frac{8}{5}$	(C) $\frac{1}{2}$	(D) $\frac{2}{3}$
9.	Which one of the follow	wing statements is not fa		
J.	(A) if two angles forming a linear pair, then each of these angles is of measure 90°			
	(B) angles forming a linear pair can both be acute angles			
	(C) one of the angles forming a linear pair can be obtuse angle			
	(D) bisectors of the adjacent angles form a right angle			
10.	Which one of the following is correct:			
10.	(A) If two parallel lines are intersected by a transversal, then alternate angles are equal			
	(B) If two parallel lines are intersected by a transversal then sum of the interior angles on the same side of			
	transversal is 180 ⁰			
	(C) If two parallel lines intersected by a transversal then corresponding angles are equal (D) All of these			



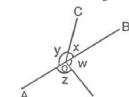
- 1. The supplement of an angle is one third of itself. Determine the angle and its supplement.
- 2. Two complementary angles are such that two times the measure of one is equal to three times measure of the other. Find the measure of the large angle.
- **3.** Find the complement of each of the following angles.
 - (A) $36^{0}40'$

- (B) 42⁰25'36'
- **4.** Write the supplementary angles of the following anglels .
 - (A) 54⁰ 28'

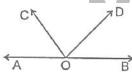
- (B) 98° 35′ 20″
- 5. In figure, if $\angle BOC = 7x + 20^{\circ}$ and $\angle COA = 3x$, then find the value of x for which AOB becomes a straight line.



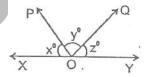
6. In figure, if x + y = w + z then prove that AOB is a straight line.



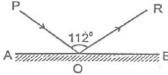
- 7. If the bisectors of two adjacent angles form a right angle prove that their non common angles are in the same straight line.
- 8. In figure, find \angle COD when \angle AOC + \angle BOD = 100° .



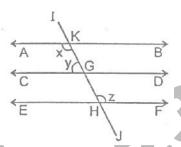
9. In figure x : y : z = 5 : 4 : 6. if XOY is a straight line find the values of x, y and z.



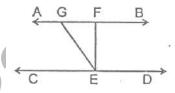
10. In the given figure, AB is a mirror, PO is the incident ray and OR, the reflected ray. If $\angle POR = 112^0$ find $\angle POA$



11. In figure, if AB \parallel CD \parallel EF and y: x = 3:7 find x

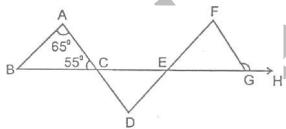


12. In figure if AB \parallel CD, EF \perp CD and \angle GED = 126 $^{\circ}$, find \angle AGE, \angle GEF and \angle FGE.



13. \triangle ABC is an isosceles triangle in which \angle B = \angle V and L & M are points on AB & AC respectively such that LM \parallel BC. If \angle A = 50^{0} find \angle LMC.

14. In figure if AB \parallel DF, AD \parallel FG, \angle BAC = 65°, \angle ACB = 55°. Find \angle FGH



15. In figure, AB | ED and \angle ABC = 30°, \angle EDC = 70° then find x°.

