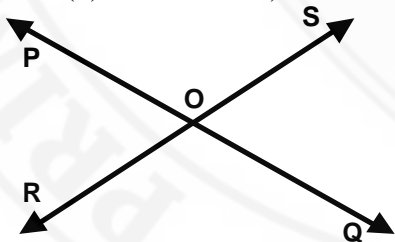
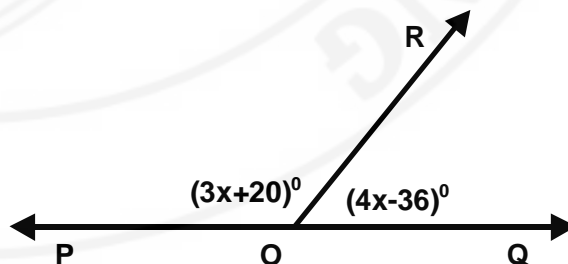


- If a ray stands on a line then the sum of the adjacent angles so formed is  
(a)  $100^{\circ}$  (b)  $180^{\circ}$  (c)  $90^{\circ}$  (d)  $360^{\circ}$
- The sum of all the angles around a point is  
(a)  $100^{\circ}$  (b)  $180^{\circ}$  (c)  $90^{\circ}$  (d)  $360^{\circ}$
- The sum of all the angles formed on the same side of a line at a given point on the line is  
(a)  $100^{\circ}$  (b)  $180^{\circ}$  (c)  $90^{\circ}$  (d)  $360^{\circ}$
- The angle which is four times its complement is  
(a)  $60^{\circ}$  (b)  $30^{\circ}$  (c)  $45^{\circ}$  (d)  $72^{\circ}$
- The angle which is five times its supplement is  
(a)  $150^{\circ}$  (b)  $180^{\circ}$  (c)  $90^{\circ}$  (d)  $360^{\circ}$
- The measure of an angle which is equal to its complement is  
(a)  $60^{\circ}$  (b)  $30^{\circ}$  (c)  $45^{\circ}$  (d)  $15^{\circ}$
- The measure of an angle which is equal to its supplement is  
(a)  $100^{\circ}$  (b)  $75^{\circ}$  (c)  $90^{\circ}$  (d)  $60^{\circ}$
- If two parallel lines are intersected by a transversal, then the bisectors of the two pairs of interior angles enclose  
(a) a square (b) a rectangle (c) a parallelogram (d) a trapezium
- Two adjacent angles on a straight line are in the ratio 5 : 4. then the measure of each one of these angles are  
(a)  $100^{\circ}$  and  $80^{\circ}$  (b)  $75^{\circ}$  and  $105^{\circ}$  (c)  $90^{\circ}$  and  $90^{\circ}$  (d)  $60^{\circ}$  and  $120^{\circ}$
- Two lines PQ and RS intersect at O. If  $\angle POR = 50^{\circ}$ , then value of  $\angle ROQ$  is  
(a)  $120^{\circ}$  (b)  $130^{\circ}$  (c)  $90^{\circ}$  (d)  $150^{\circ}$



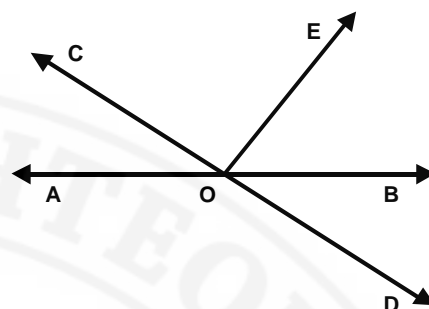
- In the adjoining figure the value of x is  
(a)  $25^{\circ}$  (b)  $28^{\circ}$  (c)  $30^{\circ}$  (d)  $60^{\circ}$



- If two straight lines intersect each other in such a way that one of the angles so formed measure  $90^{\circ}$ , then each of the remaining angles measures is  
(a)  $50^{\circ}$  (b)  $75^{\circ}$  (c)  $90^{\circ}$  (d)  $60^{\circ}$

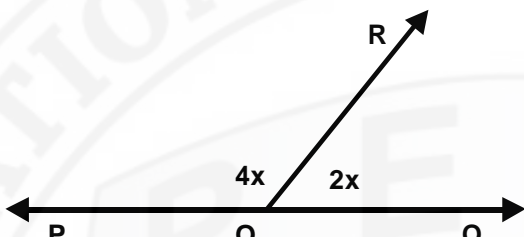
1. In fig. AB and CD intersect each other at O. If  $\angle AOC + \angle BOE = 70^\circ$  and  $\angle BOD = 40^\circ$  then the value of  $\angle BOE$  is

- (a)  $30^\circ$     (b)  $110^\circ$     (c)  $120^\circ$     (d)  $150^\circ$



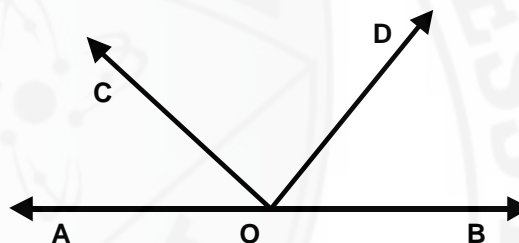
2. In fig. POQ is a line,  $\angle POR = 4x$  and  $\angle QOR = 2x$  then the value of x is

- (a)  $50^\circ$     (b)  $20^\circ$     (c)  $30^\circ$     (d)  $90^\circ$



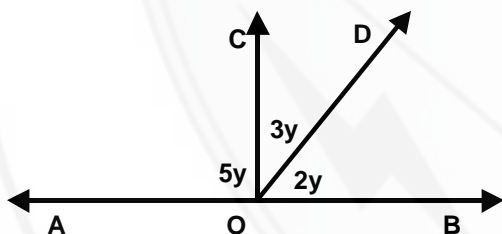
3. In the given fig.  $\angle AOC + \angle BOD = 75^\circ$ , then the value of  $\angle COD$  is

- (a)  $130^\circ$     (b)  $105^\circ$     (c)  $120^\circ$     (d)  $75^\circ$



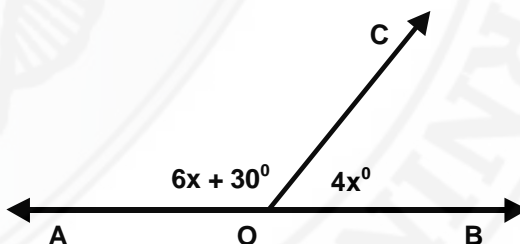
4. In the fig. the value of y is:

- (a)  $60^\circ$     (b)  $18^\circ$     (c)  $30^\circ$     (d)  $90^\circ$



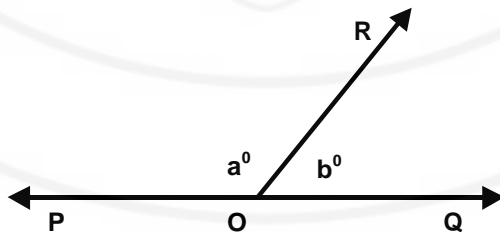
5. In fig., the value of x is:

- (a)  $60^\circ$     (b)  $15^\circ$     (c)  $30^\circ$     (d)  $45^\circ$



6. In fig.  $\angle POR$  and  $\angle QOR$  form a linear pair if  $a - b = 80^\circ$  then values of a and b respectively are:

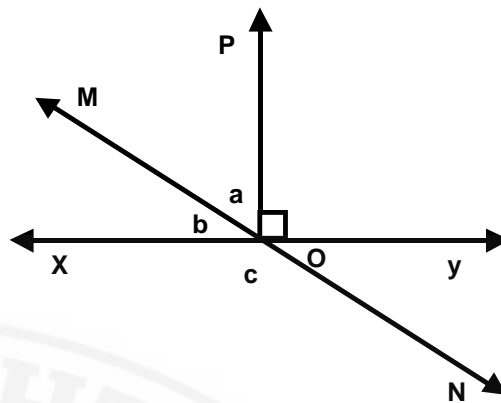
- (a)  $130^\circ$  and  $50^\circ$     (b)  $50^\circ$  and  $130^\circ$     (c)  $60^\circ$  and  $120^\circ$     (d)  $40^\circ$  and  $140^\circ$



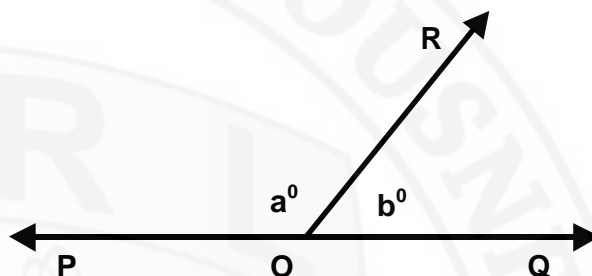
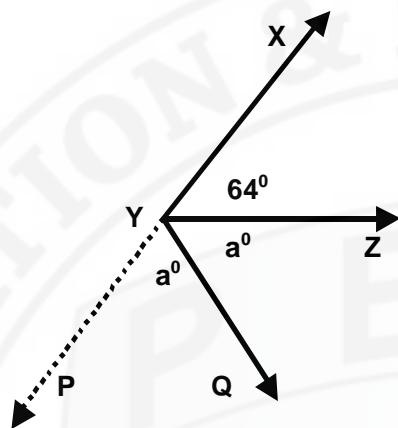
7. For two parallel lines sum of interior angles on the same side of a transversal line is

(a)  $100^\circ$     (b)  $180^\circ$     (c)  $90^\circ$     (d)  $360^\circ$

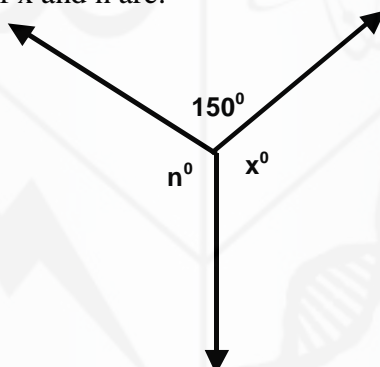
8. In fig., lines XY and MN intersect each other at point O. If  $\angle POY = 90^\circ$  and  $a : b = 2 : 3$  then the value of  $\angle C$  is  
 (a)  $140^\circ$  (b)  $120^\circ$  (c)  $80^\circ$  (d)  $95^\circ$



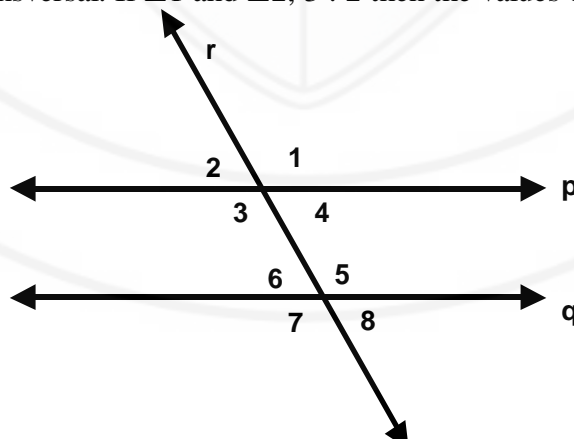
9. In fig.  $\angle XYZ = 64^\circ$  and XY is produced to point P. If ray YQ bisect  $\angle ZYP$  then the value of  $\angle XYQ$  is  
 (a)  $122^\circ$  (b)  $126^\circ$  (c)  $302^\circ$  (d)  $258^\circ$



10. In fig., b is more than one-third of a right angle than a. The values of a and b are:  
 (a)  $95^\circ$  and  $85^\circ$  (b)  $105^\circ$  and  $75^\circ$  (c)  $60^\circ$  and  $120^\circ$  (d)  $65^\circ$  and  $115^\circ$
11. In fig.,  $n - x = 3^\circ$  then values of x and n are:



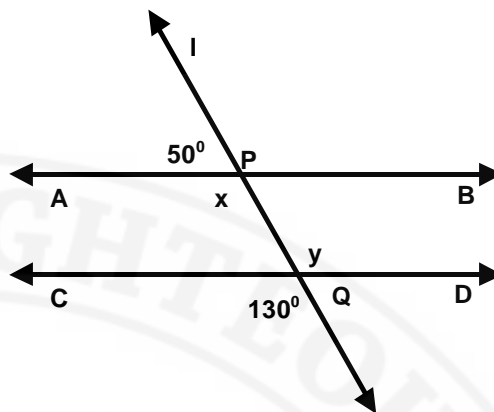
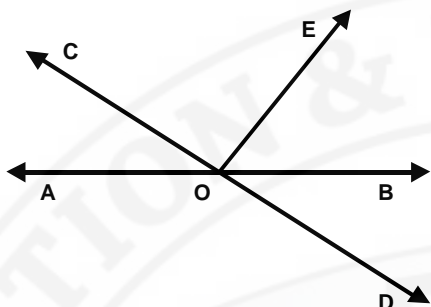
- (a)  $126^\circ$  and  $129^\circ$  (b)  $125^\circ$  and  $128^\circ$  (c)  $150^\circ$  and  $153^\circ$  (d) none of these
12. In fig.,  $q \parallel r$  and p is transversal. If  $\angle 1$  and  $\angle 2, 3 : 2$  then the values of  $\angle 3$  and  $\angle 4$  are:



- (a)  $108^\circ$  and  $72^\circ$  (b)  $72^\circ$  and  $108^\circ$  (c)  $75^\circ$  and  $105^\circ$  (d)  $85^\circ$  and  $95^\circ$

1. In fig. the values of x and y are equal to:

- (a)  $130^\circ$  (b)  $150^\circ$  (c)  $160^\circ$  (d)  $135^\circ$

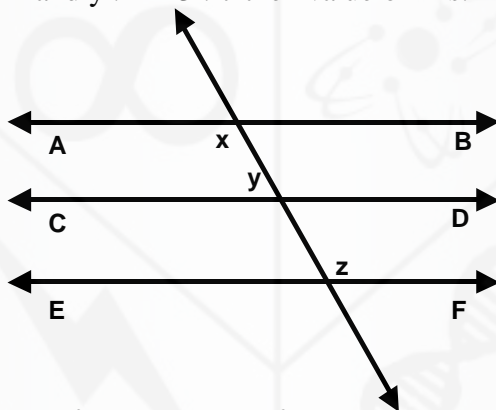


2. In fig. AB and CD intersect each other at O. If  $\angle AOC + \angle BOE = 70^\circ$  and  $\angle BOD = 40^\circ$  then the value of  $\angle COE$  is

- (a)  $250^\circ$  (b)  $70^\circ$  (c)  $30^\circ$  (d)  $50^\circ$

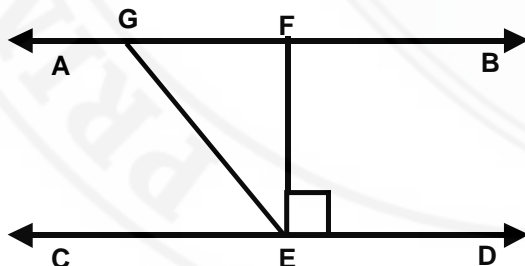
3. In fig, if  $AB \parallel CD$ ,  $CD \parallel EF$  and  $y : z = 3 : 7$  then value of x is:

- (a)  $126^\circ$  (b)  $120^\circ$  (c)  $58^\circ$  (d)  $62^\circ$



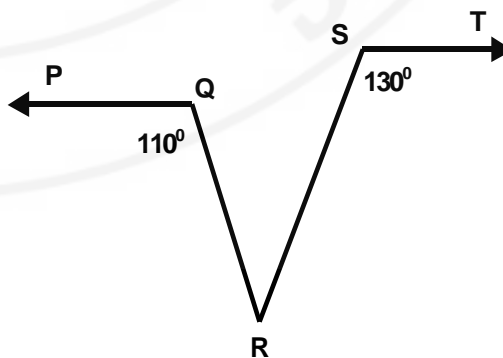
4. In fig, if  $AB \parallel CD$ ,  $EF \perp CD$  and  $\angle GED = 126^\circ$  then the value of  $\angle AGE$  is

- (a)  $126^\circ$  (b)  $120^\circ$  (c)  $128^\circ$  (d)  $54^\circ$

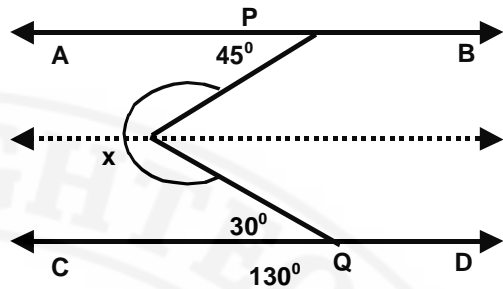
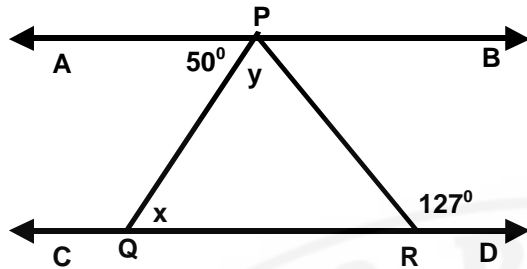


5. In fig, if  $PQ \parallel ST$ ,  $\angle PQR = 110^\circ$  and  $\angle RST = 130^\circ$  then the value of  $\angle QRS$  is

- (a)  $60^\circ$  (b)  $120^\circ$  (c)  $80^\circ$  (d)  $90^\circ$

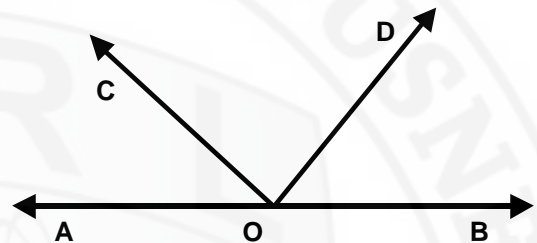


6. In fig.,  $AB \parallel CD$ ,  $\angle APQ = 50^\circ$ ,  $\angle PRD = 127^\circ$ , then the value of  $x$  and  $y$  respectively are  
 (a)  $50^\circ$  and  $77^\circ$  (b)  $40^\circ$  and  $85^\circ$  (c)  $60^\circ$  and  $90^\circ$  (d)  $85^\circ$  and  $75^\circ$

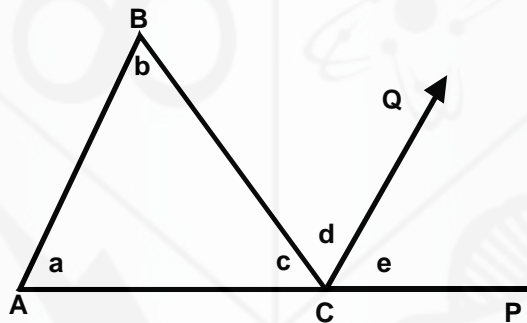


7. In fig,  $AB \parallel CD$ , the value of  $x$  is:  
 (a)  $185^\circ$  (b)  $280^\circ$  (c)  $285^\circ$  (d)  $195^\circ$

8. In fig, if  $\angle AOC$ ,  $\angle COD$  are equal and  $\angle BOD$  is a right angle, then the values of  $\angle AOC$  and  $\angle COD$  are:  
 (a)  $60^\circ$  (b)  $30^\circ$  (c)  $45^\circ$  (d)  $90^\circ$

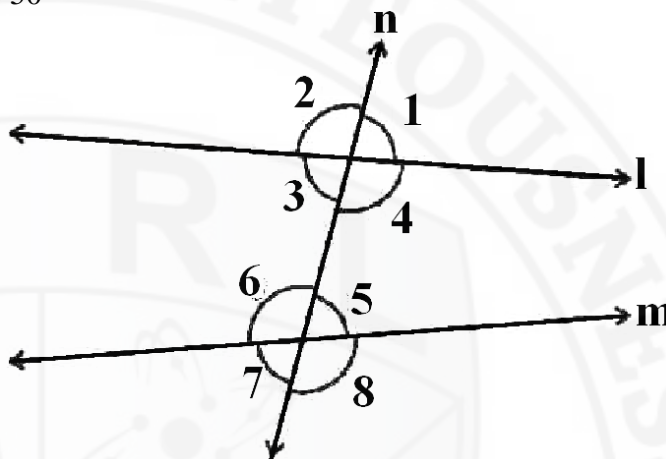
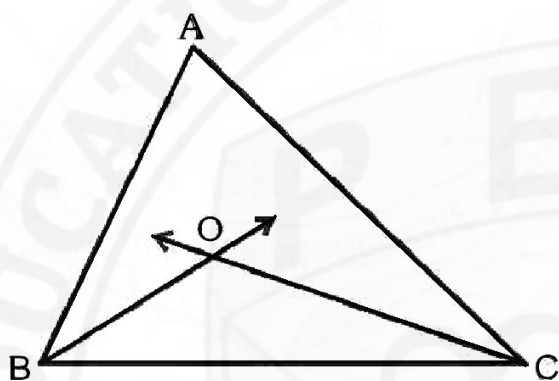


9. In fig, the sum of  $\angle a$  and  $\angle b$  is:  
 (a)  $\angle c + \angle d$  (b)  $\angle d + \angle e$   
 (c)  $\angle b + \angle c$  (d)  $\angle a + \angle c$

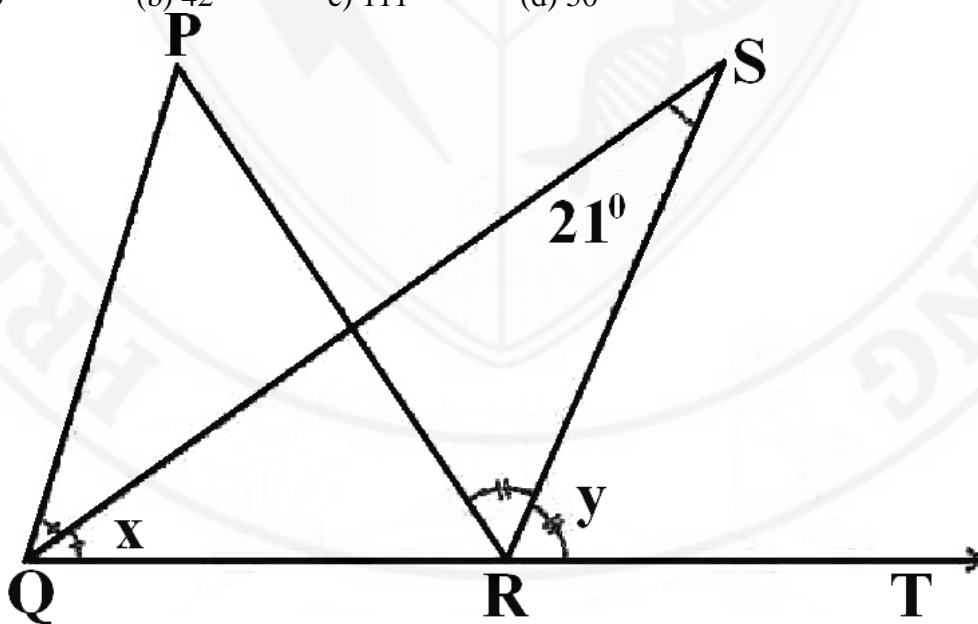


10. In triangle interior opposite angle is always less than:  
 (a) any angle of the triangle (b) opposite angle  
 (c) right angle (d) exterior angle
11. In a triangle sum of two interior opposite angles is always equal to:  
 (a) third angle (b) opposite angle  
 (c) right angle (d) none of these
12. In a triangle exterior angle is always greater than:  
 (a) third angle (b) interior opposite angles  
 (c) right angle (d) none of these

- What is the common between the three angles of a triangle and a linear pair  
 (a) angles are equal (b) in both cases sum of angle is  $180^\circ$ .  
 (c) In triangle there are three angles and in linear pair there are two angles (d) none of these.
- In the given below left figure, the bisectors of  $\angle ABC$  and  $\angle BCA$ , intersect each other at point O. If  $\angle BOC = 100^\circ$ , the  $\angle A$  is  
 (a)  $30^\circ$  (b)  $20^\circ$  (c)  $40^\circ$  (d)  $50^\circ$

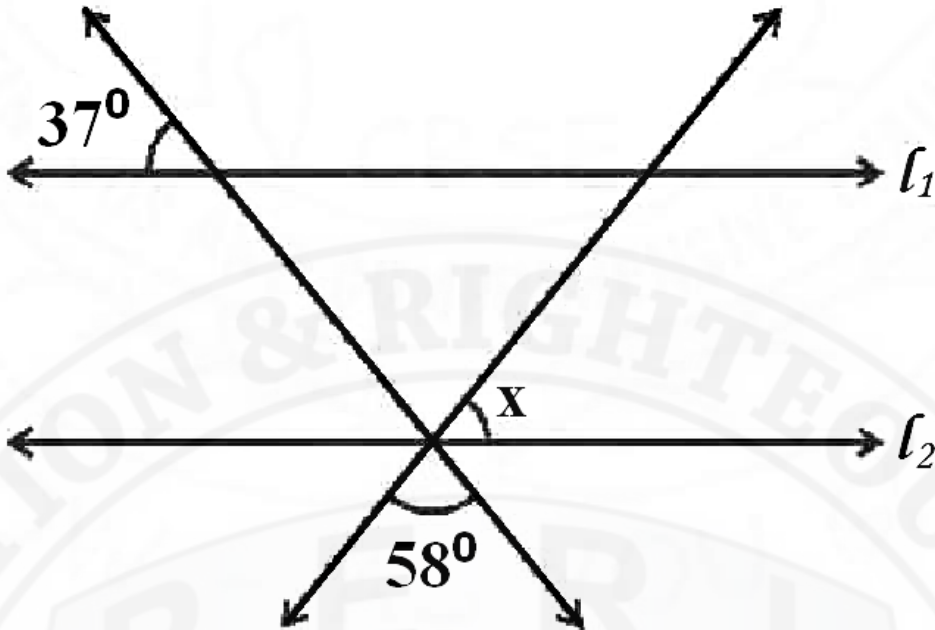


- In the given above right sided figure,  $\angle 2$  and  $\angle 8$  are known as  
 (a) exterior angles (b) exterior angles on the same side of transversal.  
 (c) alternate angles (d) alternate exterior angles.
- In the given figure, measure of  $\angle QPR$  is  
 (a)  $10.5^\circ$  (b)  $42^\circ$  (c)  $111^\circ$  (d)  $50^\circ$



- An angle is 200 more than three times the given angle. If the two angles are supplementary the angles are  
 (a)  $20^\circ$  and  $160^\circ$  (b)  $40^\circ$  and  $140^\circ$  (c)  $60^\circ$  and  $120^\circ$  (d)  $70^\circ$  and  $110^\circ$

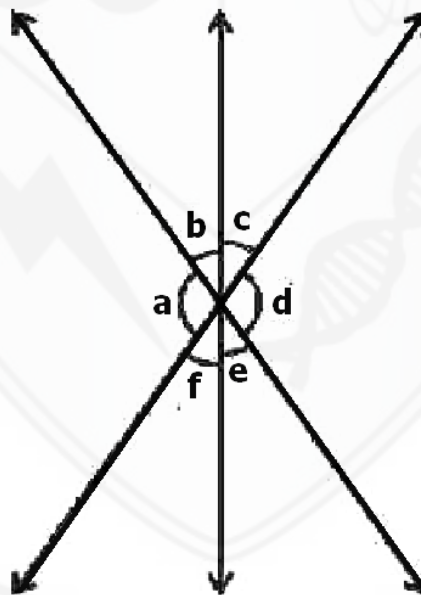
6. In figure, if  $l_1 \parallel l_2$ , what is the value of  $x$   
 (a)  $90^\circ$  (b)  $85^\circ$  (c)  $75^\circ$  (d)  $70^\circ$



7. If a wheel has six spokes equally spaced, then the measure of the angle between two adjacent spokes is  
 (a)  $90^\circ$  (b)  $30^\circ$  (c)  $60^\circ$  (d)  $180^\circ$

8. In figure, which of the following statements must be true?

- (i)  $a + b = d + c$  (ii)  $a + c + e = 180^\circ$  (iii)  $b + f = c + e$   
 (a) (i) only (b) (ii) only (c) (iii) only (d) (ii) and (iii) both



9. The angle which is two times its complement is  
 (a)  $60^\circ$  (b)  $30^\circ$  (c)  $45^\circ$  (d)  $72^\circ$
10. The angle which is two times its supplement is  
 (a)  $150^\circ$  (b)  $60^\circ$  (c)  $90^\circ$  (d)  $120^\circ$