

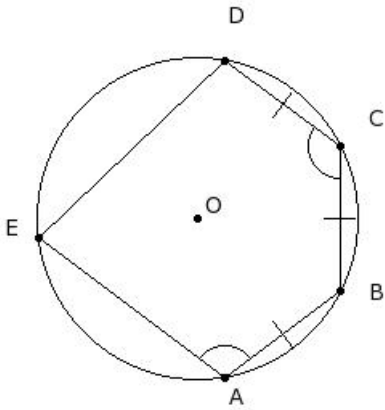
EduSahara™ Learning Center Assignment

Grade : Class X, ICSE

Chapter : Angle Properties of a Circle

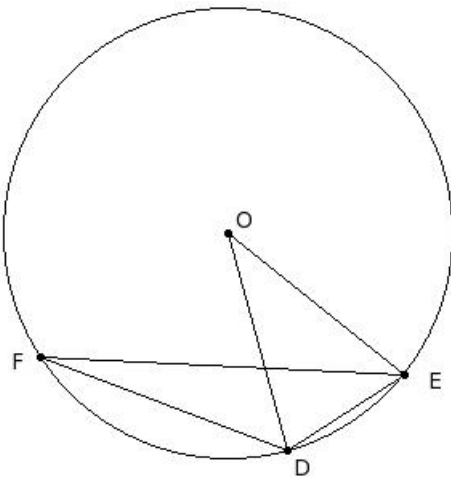
Name : Circles - Angle Properties1

1. In the given figure, a pentagon is inscribed in a circle with centre O. Given $AB = BC = CD$, $\angle BCD = 107^\circ$ and $\angle EAB = 107^\circ$. Find $\angle EAD$



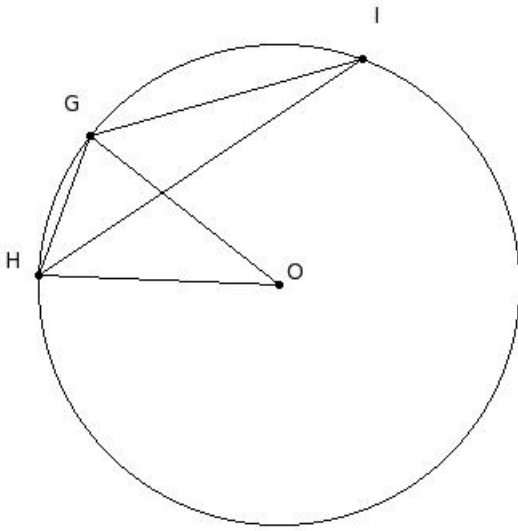
- (i) 49° (ii) 34° (iii) 64° (iv) 44° (v) 39°

2. In the given figure, DE is a side of regular 5-sided polygon and DF is a side of regular 10-sided polygon inscribed in a circle with centre O. Find $\angle DOE$



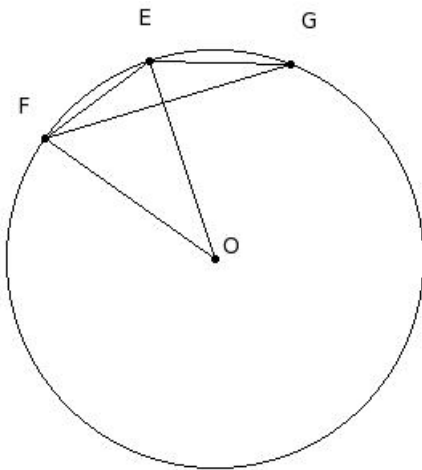
- (i) 87° (ii) 102° (iii) 82° (iv) 77° (v) 72°

3. In the given figure, GH is a side of regular 5-sided polygon and GI is a side of regular 10-sided polygon inscribed in a circle with centre O. Find $\angle GIH$



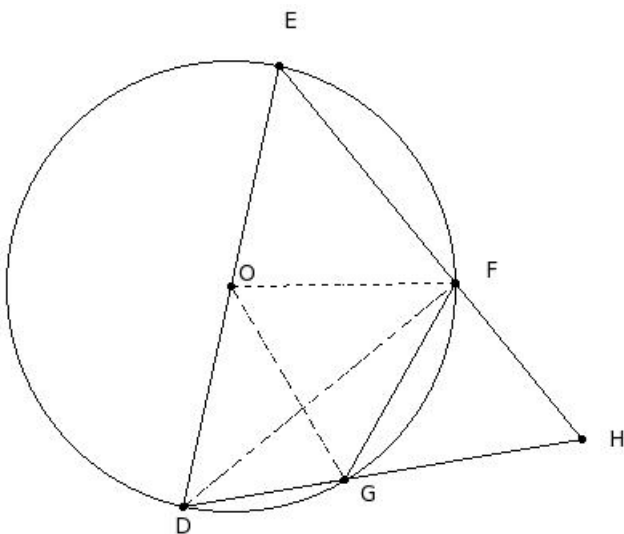
- (i) 46° (ii) 66° (iii) 36° (iv) 41° (v) 51°

4. In the given figure, EF is a side of regular 9-sided polygon and EG is a side of regular 10-sided polygon inscribed in a circle with centre O. Find $\angle EFG$



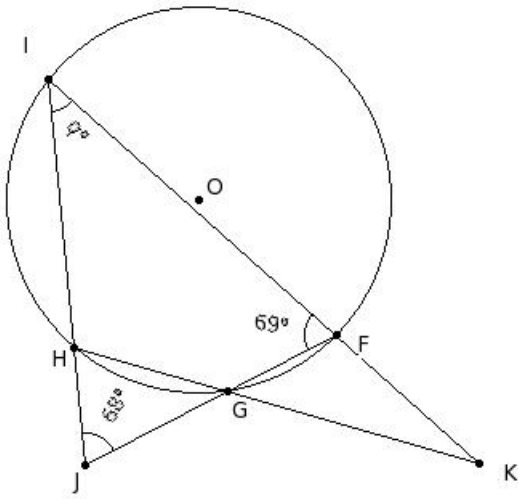
- (i) 18° (ii) 33° (iii) 28° (iv) 48° (v) 23°

5. In the given figure, O is the centre of the circle. DE is a diameter of the circle and FG is equal to radius. Find $\angle DHE$



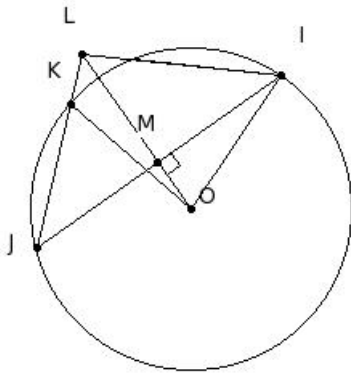
- (i) 90° (ii) 75° (iii) 70° (iv) 60° (v) 65°

6. In the given figure, O is the centre of the circle. If $\angle GJH = 68^\circ$ and $\angle GFI = 69^\circ$, find $\angle FIH$



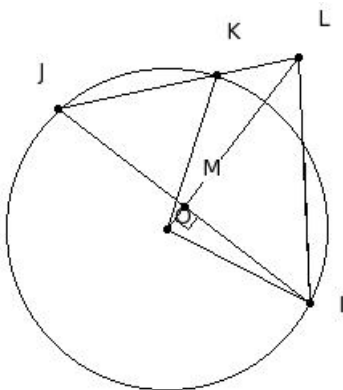
- (i) 48° (ii) 43° (iii) 53° (iv) 73° (v) 58°

7. In the given figure, O is the centre of the circle, and $OM \perp IJ$. If $\angle IJK = 41.5^\circ$, find $\angle IOK$



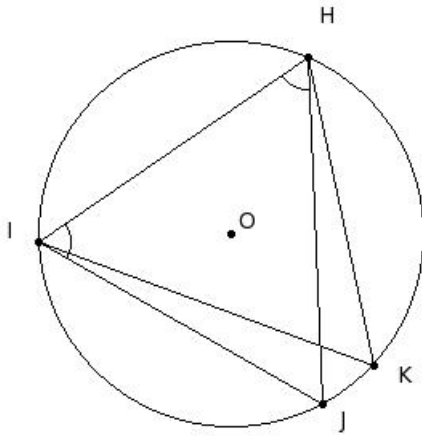
- (i) 98° (ii) 83° (iii) 88° (iv) 93° (v) 113°

8. In the given figure, O is the centre of the circle, and $OM \perp IJ$. If $\angle IJK = 50^\circ$, find $\angle OLK$



- (i) 40° (ii) 45° (iii) 55° (iv) 70° (v) 50°

9. In the given figure, O is the centre of the circle. If $\angle JHI = 57.99^\circ$ and $\angle HIJ = 64.1^\circ$, find the angle $\angle HKI$



- (i) 62.91° (ii) 87.91° (iii) 57.91° (iv) 67.91° (v) 72.91°

10. Which of the following statements are true?

- a) Atmost one chord can be drawn on a circle with a certain length
- b) A chord divides a circle into two sectors
- c) The radius is the shortest chord
- d) A chord divides a circle into two segments
- e) The diameter is the longest chord

- (i) {d,e} (ii) {c,a,d} (iii) {a,d} (iv) {b,e,d} (v) {b,e}

11. Which of the following statements are true?

- a) The longest chord of the circle passes through the centre of the circle
- b) Equal length chords subtend equal angles at the centre of the circle
- c) Equal length chords are equidistant from the centre of the circle
- d) No two chords bisect each other
- e) The farther the chord is from the centre, the larger the angle it subtends at the centre

- (i) {d,a,b} (ii) {e,b} (iii) {a,b,c} (iv) {d,a} (v) {d,e,c}

12. Which of the following statements are true?

- a) A sector is the area enclosed by two radii and a chord
- b) The area enclosed by a chord and its minor arc is called minor segment
- c) The area enclosed by a chord and its major arc is called major segment
- d) The diameter divides the circle into two unequal parts
- e) A circle divides the plane on which it lies into three parts

- (i) {d,c} (ii) {a,d,e} (iii) {a,b} (iv) {b,c,e} (v) {a,b,c}

13. Which of the following statements are true?

- a) Two chords bisect each other
- b) The diameter divides the circle into two unequal parts
- c) The midpoint of any diameter of a circle is its centre
- d) The longest of all chords of a circle is called diameter
- e) A sector is the area enclosed by two radii and a chord

- (i) {b,d,c} (ii) {a,c} (iii) {c,d} (iv) {b,d} (v) {e,a,c}

14. Which of the following statements are true?

- a) If a trapezium is cyclic, it is a rectangle

- b) If a kite is cyclic, it is a square
 - c) If a rhombus is cyclic, it is a square
 - d) A cyclic quadrilateral is a regular polygon
 - e) If a parallelogram is cyclic, it is a rectangle
- (i) {b,e} (ii) {a,c} (iii) {c,e} (iv) {d,a,c} (v) {b,e,c}
-

15. Which of the following statements are true?

- a) Only one circle can be drawn passing through two points
 - b) Exactly two tangents can be drawn parallel to a secant
 - c) Atmost one circle can be drawn passing through three non-collinear points
 - d) Only one circle can be drawn with a centre
 - e) Infinite circles can be drawn passing through three collinear points
- (i) {a,b} (ii) {e,a,b} (iii) {b,c} (iv) {d,c} (v) {d,c,b}
-

16. Which of the following are cyclic quadrilaterals?

- a) square
 - b) triangle
 - c) rhombus
 - d) parallelogram
 - e) rectangle
 - f) trapezium
- (i) {b,a} (ii) {a,e} (iii) {d,f,a} (iv) {c,e} (v) {b,e,a}
-

17. Which of the following statements are true?

- a) A secant and a chord are same
 - b) A tangent is the limiting case of a secant
 - c) A radius is a limiting case of a diameter
 - d) A diameter is a limiting case of a chord
 - e) A secant has two end points
- (i) {b,d} (ii) {c,d,b} (iii) {c,d} (iv) {e,a,b} (v) {a,b}
-

18. Which of the following statements are true?

- a) If two circles touch internally, their centres and the point of contact form a scalene triangle
 - b) If two circles touch externally, the square of the distance between their centres is the sum of the squares of their radii
 - c) If two circles touch externally, the distance between their centres is the sum of their radii
 - d) If two circles touch externally, their centres and the point of contact form an isosceles triangle
 - e) If two circles touch internally, the square of the distance between their centres is the difference of the squares of their radii
 - f) If two circles touch internally, the distance between their centres is the difference of their radii
- (i) {c,f} (ii) {b,f} (iii) {a,f,c} (iv) {d,e,c} (v) {a,c}
-

19. Which of the following statements are true?

- a) If a circle can be inscribed in a quadrilateral, the sum of the lengths of a pair of opposite sides is equal to the other pair
- b) If a circle can be inscribed in a quadrilateral, then it must be a square
- c) If a circle can be inscribed in a quadrilateral, it must be a kite
- d) It is always possible to inscribe a circle in a regular polygon

e) It is always possible to inscribe a circle in a quadrilateral

(i) {c,d} (ii) {c,d,a} (iii) {e,b,a} (iv) {a,d} (v) {b,a}

20. Which of the following statements are true?

- a) Angles in the opposite segments are complementary
- b) Angles in the opposite segments are supplementary
- c) Angles subtended by equal length arcs in two circles are equal
- d) Angles in the same segment are equal

(i) {a,d,b} (ii) {b,d} (iii) {a,b} (iv) {a,c,b} (v) {c,d}

21. The point of intersection of the angular bisectors of a triangle is

(i) incentre (ii) circumcentre (iii) centroid (iv) excentre (v) orthocentre

22. If an arc subtends an angle of x° in its alternate segment, then the angle it subtends at the centre is

(i) $4x^\circ$

(ii) $2x^\circ$

(iii) $\frac{x^\circ}{2}$

(iv) x°

23. An arc subtends 90° in its alternate segment. The arc is

- (i) minor arc
 - (ii) semi-circle
 - (iii) major arc
 - (iv) major segment
 - (v) quadrant
-

24. An arc subtends 115° in its alternate segment. The arc is

- (i) major arc
 - (ii) semi-circle
 - (iii) minor arc
 - (iv) minor segment
 - (v) quadrant
-

25. An arc subtends 44° in its alternate segment. The arc is

- (i) quadrant
 - (ii) major arc
 - (iii) minor arc
 - (iv) major segment
 - (v) semi-circle
-

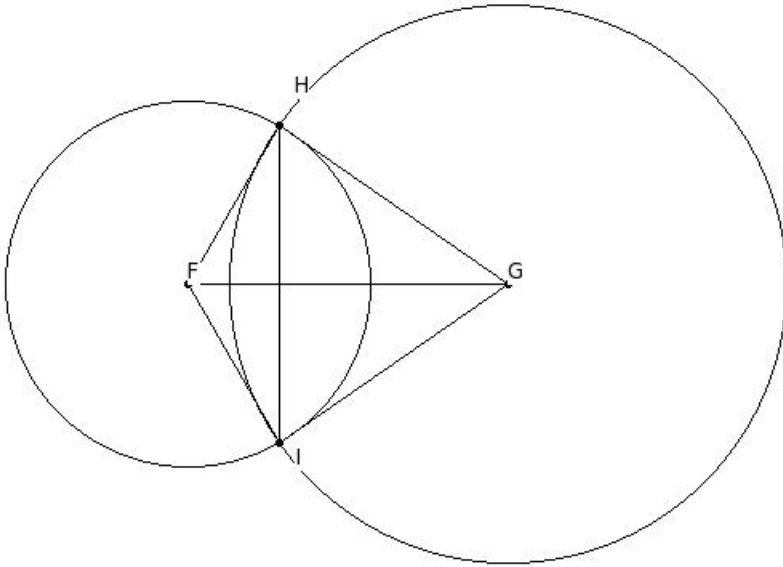
26. An arc subtends 79° in its alternate segment. Its corresponding major arc subtends what angle in its (major arc) alternate segment?

(i) 101° (ii) 116° (iii) 111° (iv) 131° (v) 106°

27. An arc subtends 49° in its alternate segment. The angle made by its corresponding major arc at the centre is

- (i) 277° (ii) 292° (iii) 262° (iv) 272° (v) 267°

28. In the given figure, two circles of radii $FH = 11.4$ cm & $GH = 17.4$ cm intersect at H & I. The distance between the centres $FG = 20$ cm, find the length of HI



- (i) 19.77 cm (ii) 20.77 cm (iii) 18.77 cm (iv) 17.77 cm (v) 21.77 cm

29. The angle subtended by the semicircle at the centre is

- (i) 180° (ii) 190° (iii) 210° (iv) 195° (v) 185°

30. The angle subtended by the diameter at any point on the circle is

- (i) 90° (ii) 95° (iii) 100° (iv) 120° (v) 105°

31. Angle subtended by the major arc at the centre is

- (i) complete angle
(ii) straight angle
(iii) reflex angle
(iv) zero angle
(v) right angle

32. Angle subtended in the major segment is

- (i) straight angle
(ii) acute angle
(iii) obtuse angle
(iv) reflex angle
(v) right angle

33. The opposite angles in a cyclic quadrilateral are

- (i) supplementary
(ii) linear pair
(iii) complementary

(iv) equal

34. If the radius of the circumcircle is half the length of a side of the triangle, then the triangle is

- (i) equilateral triangle
- (ii) right angle triangle
- (iii) acute angled triangle
- (iv) obtuse angled triangle

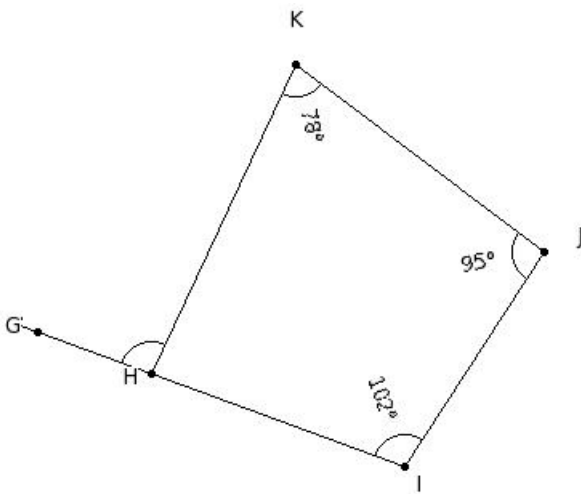
35. Circles having common centre are called

- (i) intersecting circles
- (ii) congruent circles
- (iii) similar circles
- (iv) concentric circles

36. If two circles are concentric, then

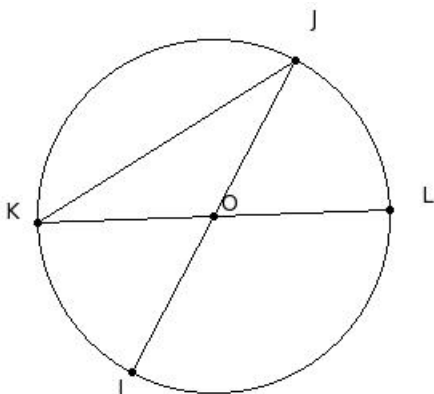
- (i) their perimeters are same
- (ii) their centres are same
- (iii) their diameters are same
- (iv) their radii are same

37. In the given figure, H I J K is cyclic quadrilateral. If $\angle IJK = 95^\circ$, find $\angle GHK$



- (i) 125° (ii) 110° (iii) 100° (iv) 95° (v) 105°

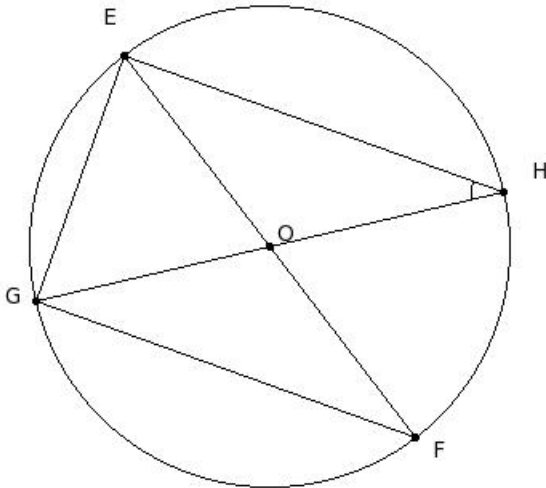
38. In the given figure, IJ & KL are diameters of the circle. If $\angle IJK = 30^\circ$ find, $\angle JOK$



- (i) (ii) (iii) (iv) (v)

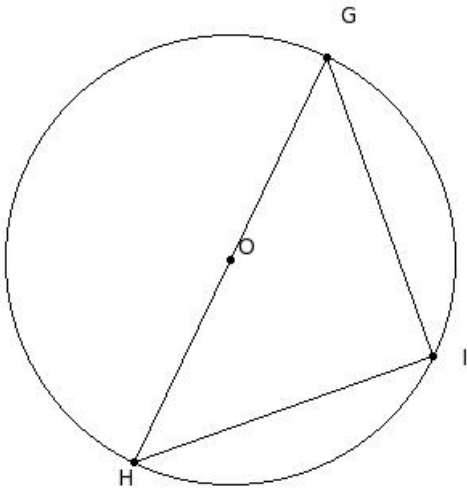
150° 125° 120° 130° 135°

39. In the given figure, EF & GH are diameters of the circle. If $\angle EHG = 33^\circ$, find $\angle OGF$



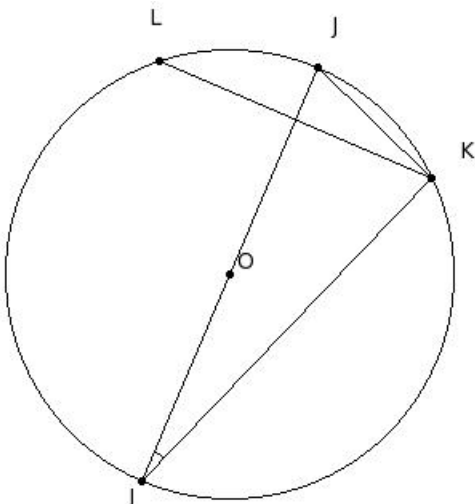
- (i) 43° (ii) 48° (iii) 38° (iv) 63° (v) 33°

40. In the given figure GI & HI are equal length chords of the circle. Find $\angle IGH$



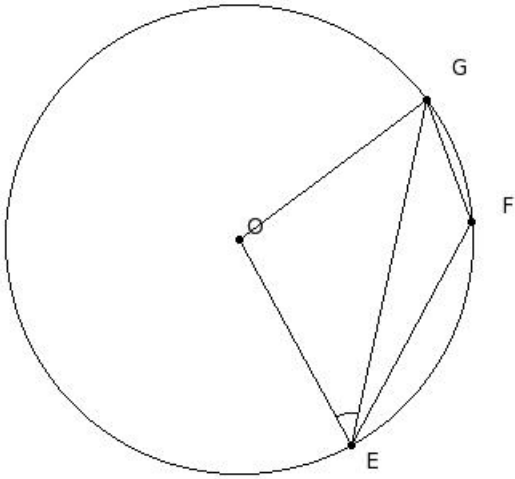
- (i) 75° (ii) 55° (iii) 45° (iv) 60° (v) 50°

41. In the given figure, IJ is a diameter of the circle with centre O. If $\angle JIK = 20.67^\circ$ and $JK = JL$, find $\angle LKI$



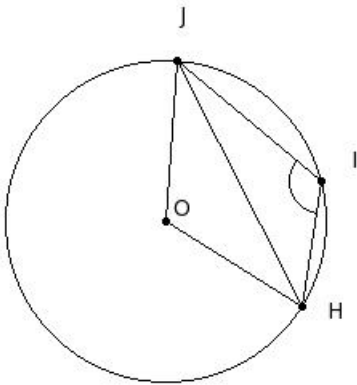
- (i) 79.33° (ii) 99.33° (iii) 84.33° (iv) 74.33° (v) 69.33°

42. In the given figure, O is the centre of the circle. If $\angle OEG = 41^\circ$, find $\angle F$



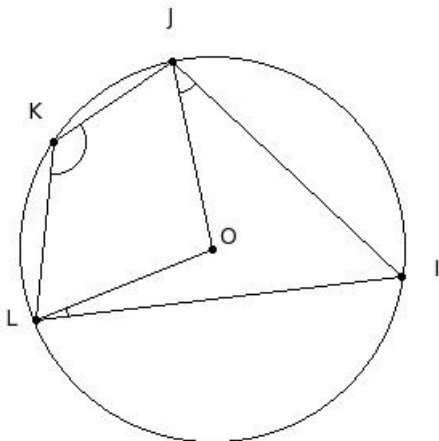
- (i) 136° (ii) 161° (iii) 131° (iv) 141° (v) 146°

43. In the given figure, O is the centre of the circle. If $\angle HIJ = 121^\circ$, find $\angle OHJ$



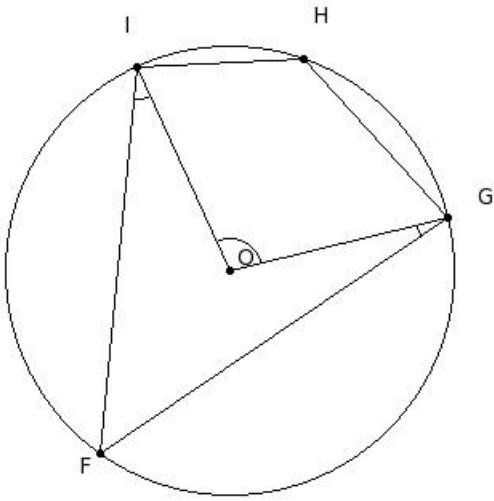
- (i) 61° (ii) 46° (iii) 36° (iv) 41° (v) 31°

44. In the given figure, O is the centre of the circle. If $\angle IJO = 35^\circ$ and $\angle OLI = 15^\circ$, find $\angle JKL$



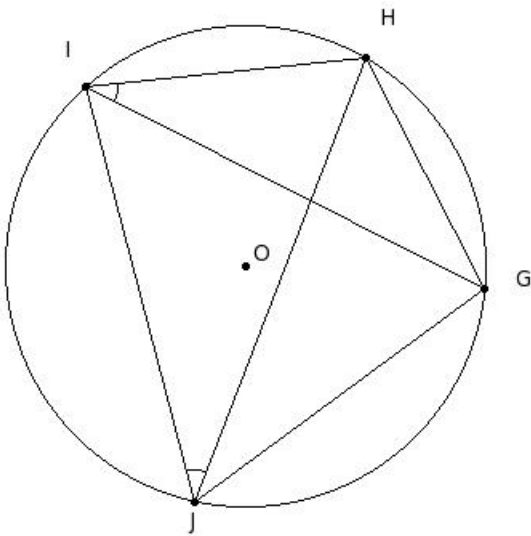
- (i) 135° (ii) 130° (iii) 160° (iv) 145° (v) 140°

45. In the given figure, O is the centre of the circle. If $\angle FGO = 20^\circ$ and $\angle OIF = 30^\circ$, find $\angle GOI$



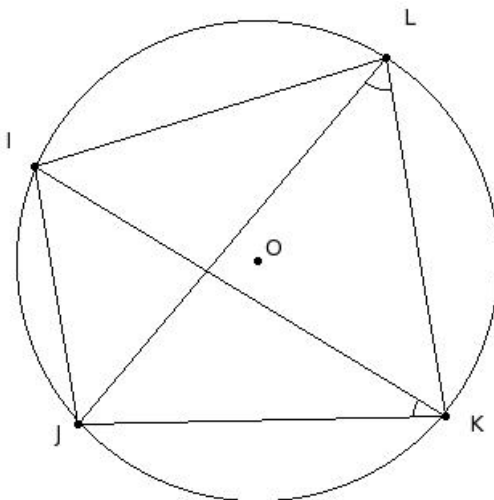
- (i) 130° (ii) 105° (iii) 100° (iv) 115° (v) 110°

46. In the given figure, GHIJ is a cyclic quadrilateral. If $\angle GIH = 33^\circ$ and $\angle IJH = 36^\circ$, find $\angle GHI$



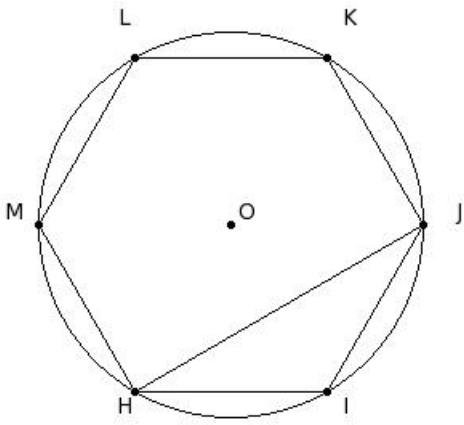
- (i) 121° (ii) 126° (iii) 116° (iv) 111° (v) 141°

47. In the given figure, IJKL is a cyclic quadrilateral. If $\angle IKJ = 33^\circ$ and $\angle KLJ = 49^\circ$, find $\angle ILK$



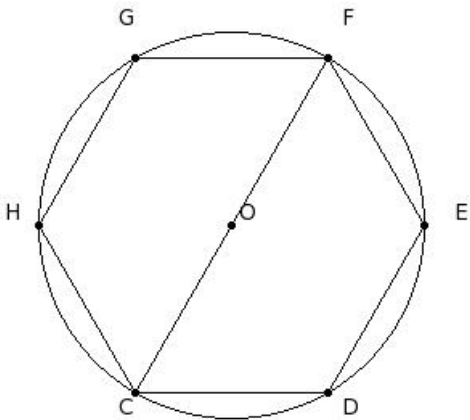
- (i) 87° (ii) 82° (iii) 112° (iv) 97° (v) 92°

48. In the given figure, HIJKLM is a regular hexagon. Find $\angle HJI$



- (i) 30° (ii) 45° (iii) 40° (iv) 35° (v) 60°

49. In the given figure, CDEFGH is a regular hexagon. Find $\angle CFE$

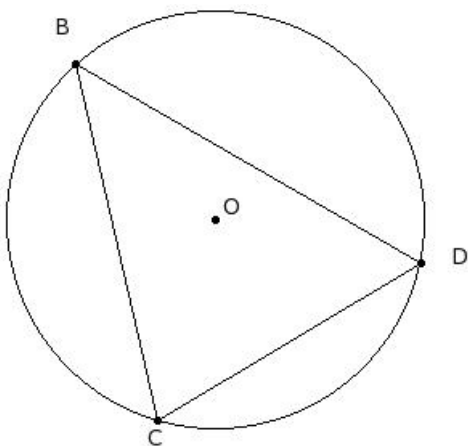


- (i) 90° (ii) 70° (iii) 75° (iv) 65° (v) 60°

50. With the vertices of a triangle $\triangle FGH$ as centres, three circles are drawn touching each other externally. If the sides of the triangle are 10 cm, 16 cm and 12 cm, find the radii of the circles

- (i) 3 cm, 7 cm & 9 cm respectively
 (ii) 3 cm, 7 cm & 14 cm respectively
 (iii) 8 cm, 7 cm & 9 cm respectively
 (iv) 3 cm, 12 cm & 9 cm respectively
 (v) 8 cm, 12 cm & 14 cm respectively

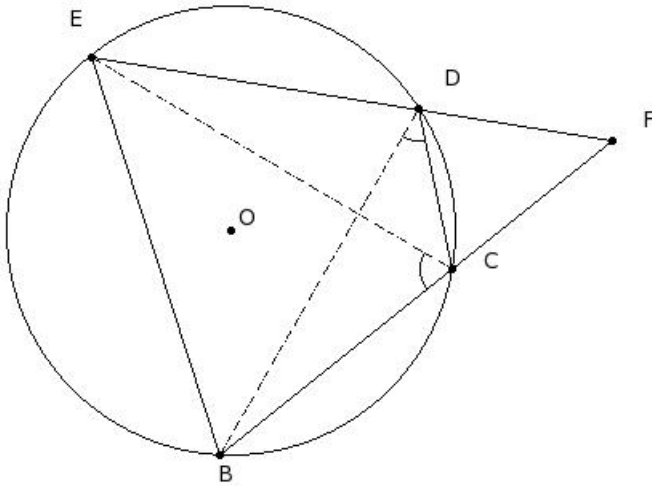
51. O is the centre of the circle. If $\angle CDB = 61^\circ$, find the angle $\angle OCB$



- (i) (ii) (iii) (iv) (v)

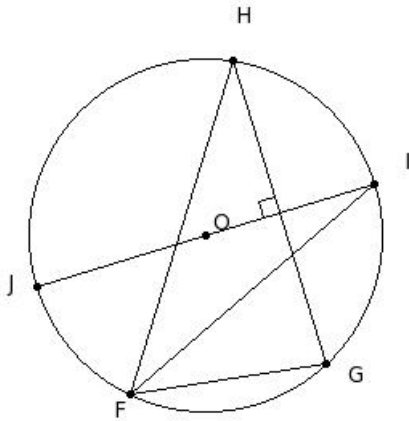
39° 59° 44° 29° 34°

52. In the given figure, BCDE is a cyclic quadrilateral. If $\angle BCE = 69^\circ$ and $\angle CDB = 42^\circ$, find $\angle CDE$



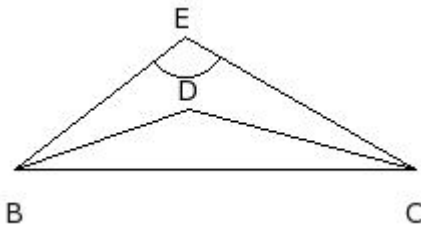
- (i) 126° (ii) 111° (iii) 141° (iv) 121° (v) 116°

53. IJ is the perpendicular bisector of side GH of $\triangle FGH$. Given $\angle FGH = 82^\circ$ and $\angle IFH = 32^\circ$, find $\angle FHG$



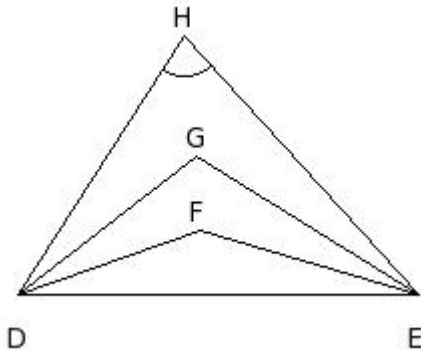
- (i) 44° (ii) 39° (iii) 64° (iv) 49° (v) 34°

54. In the given figure, $\triangle EBC$ is a scalene triangle. DB bisects $\angle EBC$. Similarly CD bisects $\angle BCE$. Given $\angle CEB = 112^\circ$, find $\angle CDB$



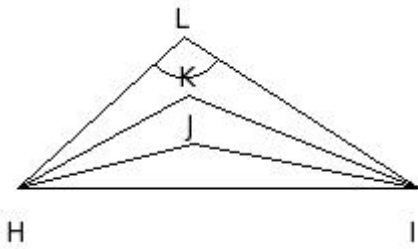
- (i) 156° (ii) 161° (iii) 151° (iv) 176° (v) 146°

55. In the given figure, $\triangle HDE$ is a scalene triangle. FD & GD trisect $\angle HDE$. Similarly EF & EG trisect $\angle DEH$. Given $\angle EHD = 75^\circ$, find $\angle EFD$



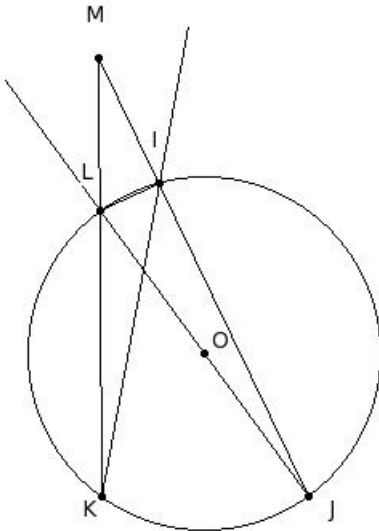
- (i) 150° (ii) 145° (iii) 155° (iv) 160° (v) 175°

56. In the given figure, $\triangle LHI$ is a scalene triangle. JH & KH trisect $\angle LHI$. Similarly IJ & IK trisect $\angle HIL$. Given $\angle ILH = 105^\circ$, find $\angle IKH$



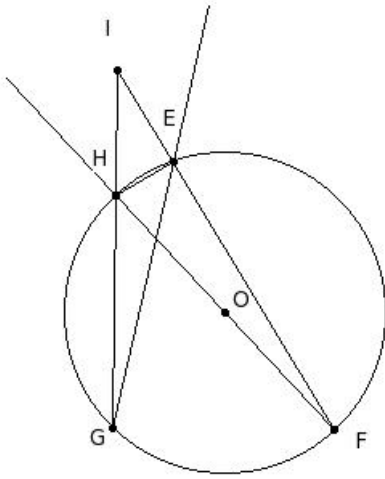
- (i) 140° (ii) 130° (iii) 145° (iv) 135° (v) 160°

57. In the given figure, $\angle IKL = 11^\circ$ and $\angle IML = 25^\circ$, find $\angle KIL$



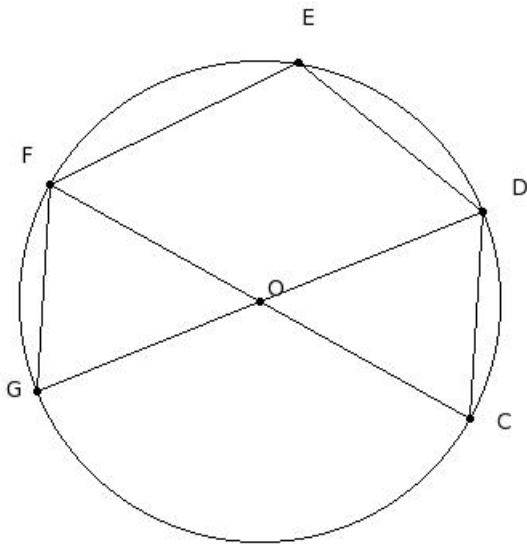
- (i) 59° (ii) 69° (iii) 84° (iv) 64° (v) 54°

58. In the given figure, $\angle EGH = 12^\circ$ and $\angle EIH = 32^\circ$, find $\angle FHE$



- (i) 88° (ii) 108° (iii) 83° (iv) 93° (v) 78°

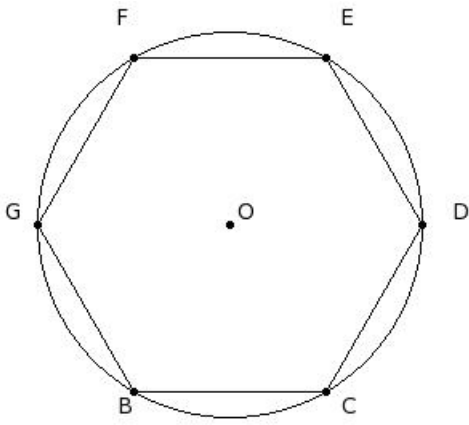
59. In the given figure, CD , DE , EF and FG are chords and CF , DG are diameters passing through the centre O. If $\angle COD = 51^\circ$. Find $\angle DEF$



- (i) 130.5° (ii) 145.5° (iii) 120.5° (iv) 115.5° (v) 125.5°

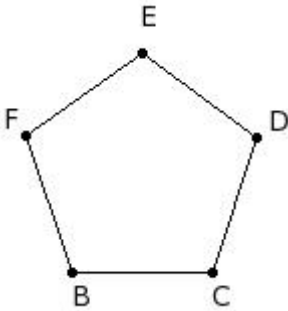
60. In the given figure, BCDEFG is a regular hexagon inscribed in a circle with centre O. Which of the following are true?

- a) $\angle BDC = 60^\circ$
b) $\angle BOG = 60^\circ$
c) $\angle GED = 90^\circ$
d) $\angle COE = 120^\circ$
e) $\angle CFD = 30^\circ$



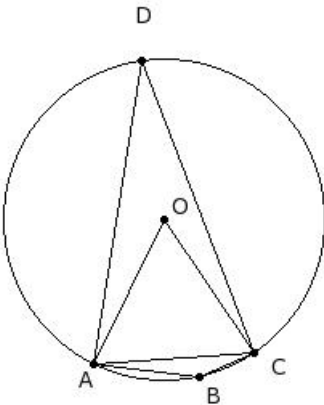
- (i) {a,e,b} (ii) {a,d} (iii) {a,b} (iv) {a,c} (v) {b,c,d,e}

61. In the given figure, BCDEF is a regular pentagon . Find $\angle BFD$



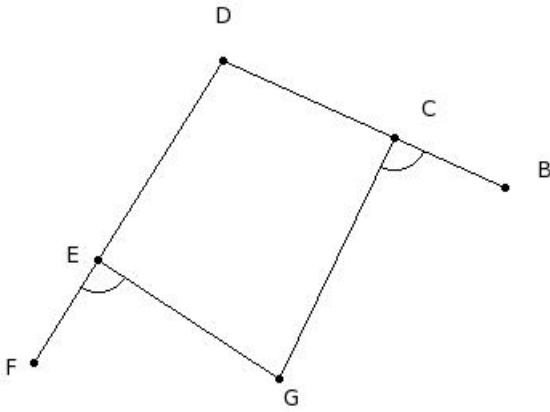
- (i) 77° (ii) 82° (iii) 87° (iv) 72° (v) 102°

62. In the given figure, AC is a chord which is equal to the radius of the circle. Find $\angle D$ and $\angle B$



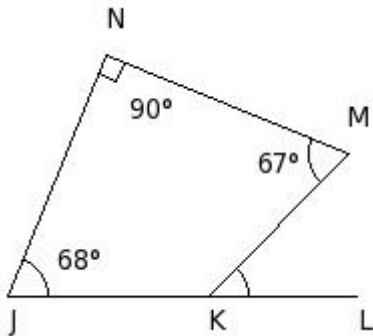
- (i) 60° & 120°
 (ii) 30° & 150°
 (iii) 40° & 140°
 (iv) 50° & 130°
 (v) 45° & 135°

63. In the given figure, CDEG is a cyclic quadrilateral where DE and DC are produced to F and B respectively. If $\angle BCG = 91^\circ$, find $\angle FEG$



- (i) 99° (ii) 94° (iii) 89° (iv) 119° (v) 104°

64. In the given figure, $\angle J = 68^\circ$, $\angle M = 67^\circ$ and $\angle N = 90^\circ$, find $\angle MKL$



- (i) 75° (ii) 45° (iii) 55° (iv) 60° (v) 50°

65. Which of the following statements are true?

- a) A cyclic parallelogram is a rhombus
- b) A cyclic kite is a square
- c) A cyclic rhombus is a square
- d) A cyclic trapezium is a rectangle
- e) A cyclic parallelogram is a rectangle

- (i) {a,c} (ii) {d,a,c} (iii) {c,e} (iv) {b,e} (v) {b,e,c}

66. Which of the following statements are true?

- a) The exterior angle of a quadrilateral and its interior opposite angle are supplementary
- b) A quadrilateral in which the diagonals are equal and bisect each other is cyclic
- c) All parallelograms are cyclic
- d) Either pair of opposite angles of a cyclic quadrilateral are supplementary
- e) An isosceles trapezium is cyclic

- (i) {a,c,e} (ii) {b,d,e} (iii) {a,b,d} (iv) {a,b} (v) {c,d}

67. Which of the following are not cyclic quadrilaterals?

- a) kite
- b) square
- c) isosceles trapezium
- d) rectangle
- e) rhombus

- (i) {a,e} (ii) {d,b,a} (iii) {c,e,a} (iv) {c,e} (v) {b,a}

68. Which of the following statements are true?

- a) If two chords are equal, then they are equidistant from the centre of the circle
 - b) The angle subtended in a semicircle is a right angle
 - c) Angle subtended in the major segment is obtuse
 - d) Angle subtended by the major arc at the centre is acute
 - e) Angle subtended by the major arc in its alternate segment is obtuse
- (i) {c,a} (ii) {c,d,e} (iii) {a,b,e} (iv) {d,b} (v) {c,a,b}

69. In triangle HIJ, if a circle is drawn with IJ as diameter and if it passes through H it is a

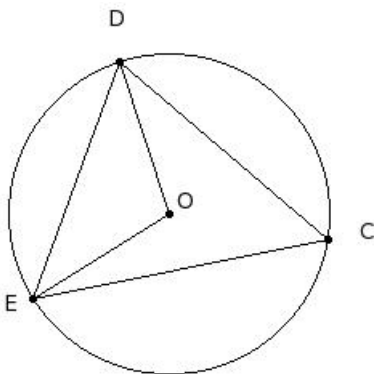
- (i) right angle triangle
- (ii) obtuse angled triangle
- (iii) equilateral triangle
- (iv) acute angled triangle

70. Which of the following statements are true?

- a) $\frac{22}{7}$ is a rational number
 - b) π is a rational number
 - c) All chords of a circle are diameters
 - d) A circle divides the plane into three mutually disjoint sets of points
 - e) All diameters of a circle are chords
- (i) {b,a} (ii) {a,d,e} (iii) {c,d} (iv) {b,a,d} (v) {b,c,e}

71. In the given figure, which of the following are true?

- a) $\angle C + \angle ODE + \angle OED = 2 \angle C$
- b) $\angle C + \angle DOE = 180^\circ$
- c) $\angle C + \angle OED = 90^\circ$
- d) $\angle C + \angle ODE = 90^\circ$
- e) $\angle C + \angle ODE = 120^\circ$



- (i) {b,d} (ii) {c,d} (iii) {a,c} (iv) {b,d,c} (v) {e,a,c}

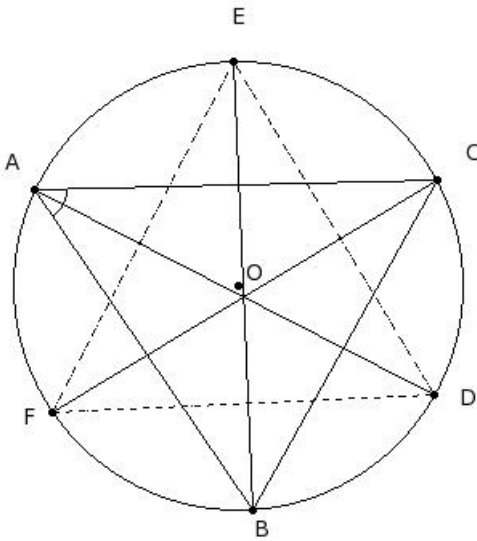
72. If BCDE is a cyclic quadrilateral and $\angle B - \angle D = 28^\circ$, then $\angle D$

- (i) 81° (ii) 106° (iii) 76° (iv) 86° (v) 91°

73. If BCDE is a cyclic parallelogram, then $\angle E$

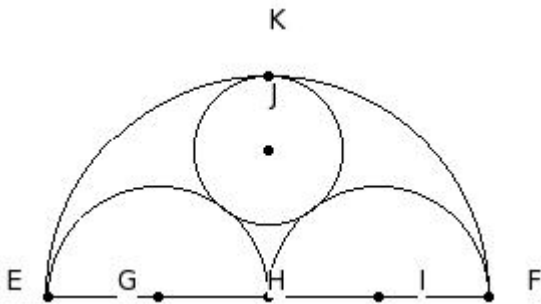
- (i) 100° (ii) 120° (iii) 90° (iv) 95° (v) 105°

74. In the given figure, the bisectors of $\angle A$, $\angle B$ & $\angle C$ of $\triangle ABC$ meet the circumcircle at D, E & F. If $\angle A = 57^\circ$, find $\angle D$



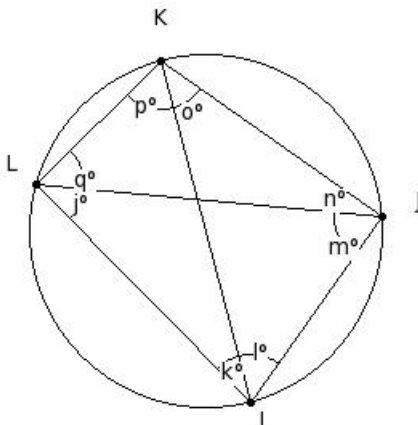
- (i) 66.5° (ii) 71.5° (iii) 61.5° (iv) 76.5° (v) 91.5°

75. EF is a line segment and H is its mid-point. Three semi-circles are drawn with EH, HF and EF as diameters. G, I and H respectively are the centres of these semi-circles. A new circle is drawn touching these three semi-circles. Find its radius, given $EG = 6$ cm



- (i) 5.00 cm (ii) 3.00 cm (iii) 4.00 cm (iv) 2.00 cm (v) 6.00 cm

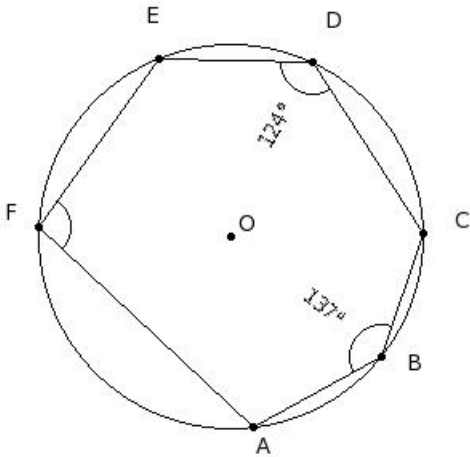
76. In the given figure, which of the following angle pairs are equal?



- (i) $\{(j,o),(m,p),(k,q),(n,l)\}$
 (ii) $\{(j,o),(k,n),(l,q),(m,p)\}$
 (iii) $\{(q,k),(j,p),(l,o),(m,n)\}$

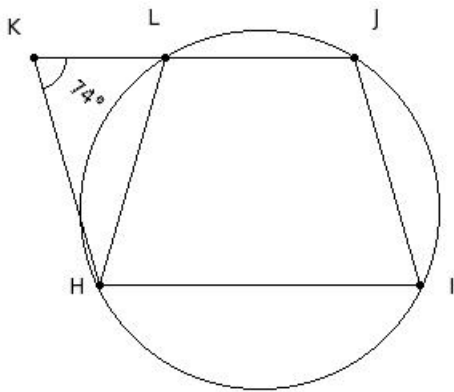
(iv) $\{(j,l),(q,m),(p,n),(k,o)\}$ (v) $\{(p,j),(k,n),(q,o),(m,l)\}$

77. ABCDEF is a hexagon inscribed in a circle. Given $\angle ABC = 137^\circ$ & $\angle CDE = 124^\circ$, find $\angle EFA$



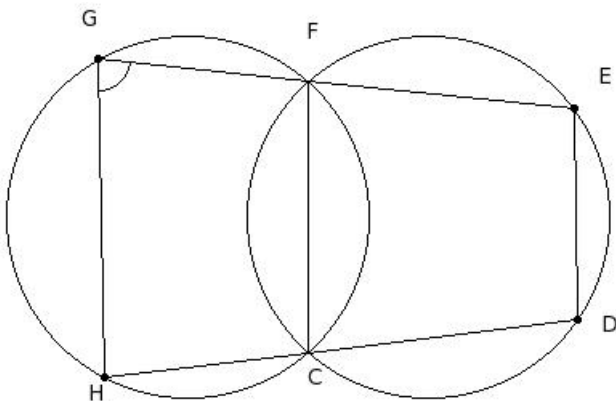
(i) 104° (ii) 99° (iii) 109° (iv) 114° (v) 129°

78. In the given figure, HIJK is a parallelogram. The circumcircle of $\triangle HIJ$ cuts JK at L. Given $\angle HKL = 74^\circ$, find $\angle KHL$



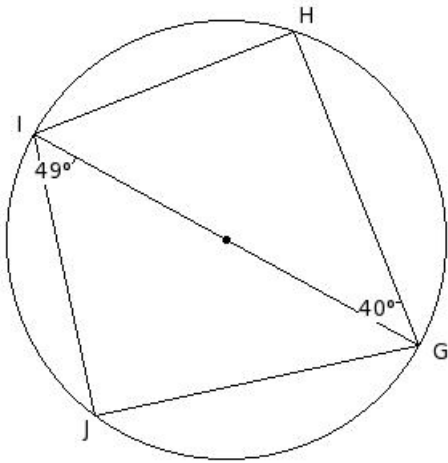
(i) 42° (ii) 62° (iii) 32° (iv) 37° (v) 47°

79. In the given figure, GE and HD are two lines passing through the points of intersection of the two circles at F and C. If $\angle HGF = 83^\circ$, find $\angle FED$



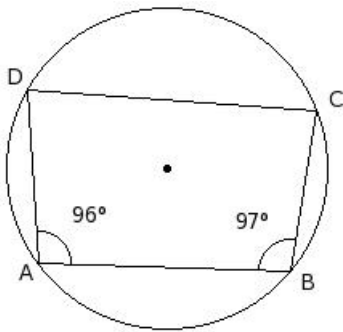
(i) 112° (ii) 127° (iii) 107° (iv) 102° (v) 97°

80. In the given figure, find the angles of the quadrilateral



- (i) $G = 81^\circ, H = 90^\circ, I = 99^\circ, J = 90^\circ$
- (ii) $G = 83^\circ, H = 90^\circ, I = 97^\circ, J = 90^\circ$
- (iii) $G = 80^\circ, H = 90^\circ, I = 100^\circ, J = 90^\circ$
- (iv) $G = 79^\circ, H = 90^\circ, I = 101^\circ, J = 90^\circ$
- (v) $G = 82^\circ, H = 90^\circ, I = 98^\circ, J = 90^\circ$

81. In the given figure, find the remaining angles of the quadrilateral

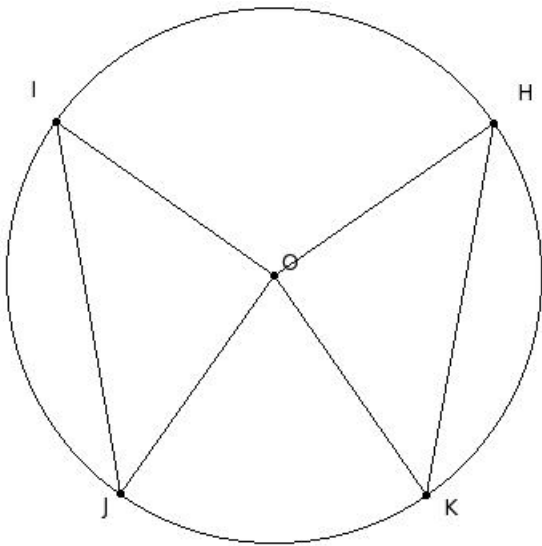


- (i) $C = 82^\circ, D = 81^\circ$
- (ii) $C = 83^\circ, D = 82^\circ$
- (iii) $C = 85^\circ, D = 84^\circ$
- (iv) $C = 86^\circ, D = 85^\circ$
- (v) $C = 84^\circ, D = 83^\circ$

82. Points which lie on the circumference of the circle are called

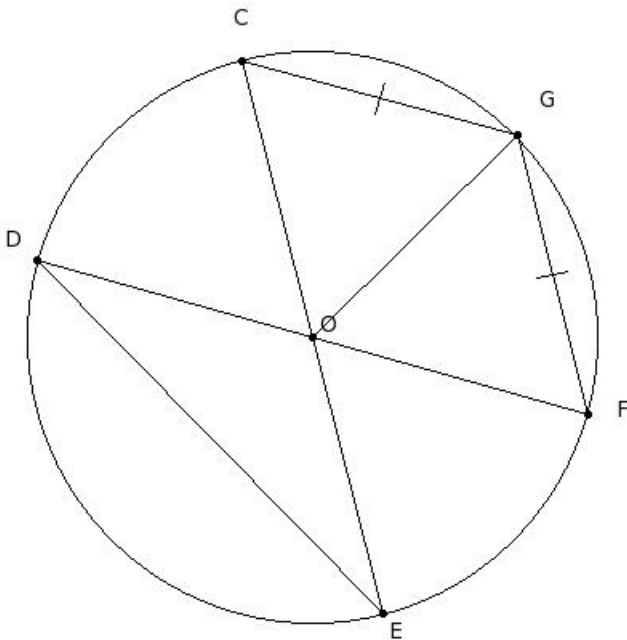
- (i) Concurrent points
- (ii) Similar points
- (iii) Coincident points
- (iv) Concyclic points
- (v) Cyclic points

83. In the given figure, HK & IJ are two chords of equal length. Given $\angle OIJ = 45^\circ$, find $\angle HOK$



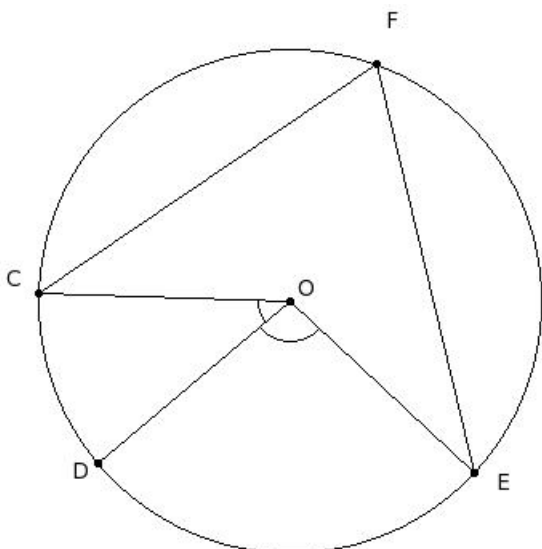
- (i) 105° (ii) 100° (iii) 95° (iv) 120° (v) 90°

84. In the given figure, FG & GC are equal length chords, CE and DF are diameters. Given $\angle FGO = 60^\circ$ find, $\angle EOD$



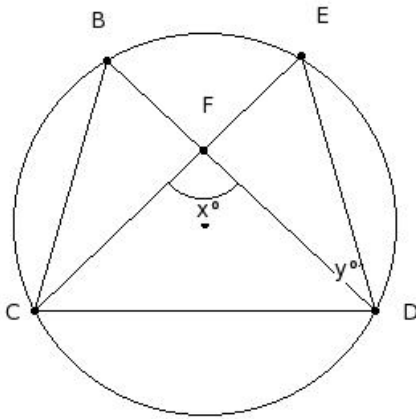
- (i) 125° (ii) 150° (iii) 135° (iv) 130° (v) 120°

85. In the given figure, O is the centre of the circle. Given $\angle CFE = 69.5^\circ$ & $\angle DOE = 97^\circ$, find $\angle COD$



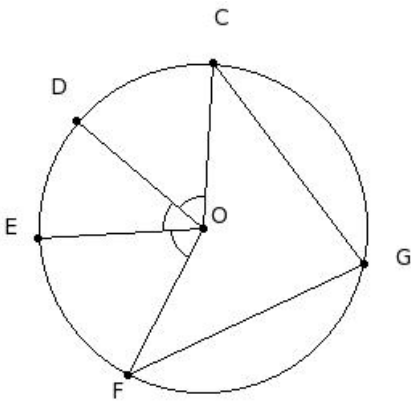
- (i) 72° (ii) 57° (iii) 42° (iv) 52° (v) 47°

86. In the given figure, chords BD & CE meet at F. Given $x = 92^\circ$ and $y = 30^\circ$, find $\angle CBD$



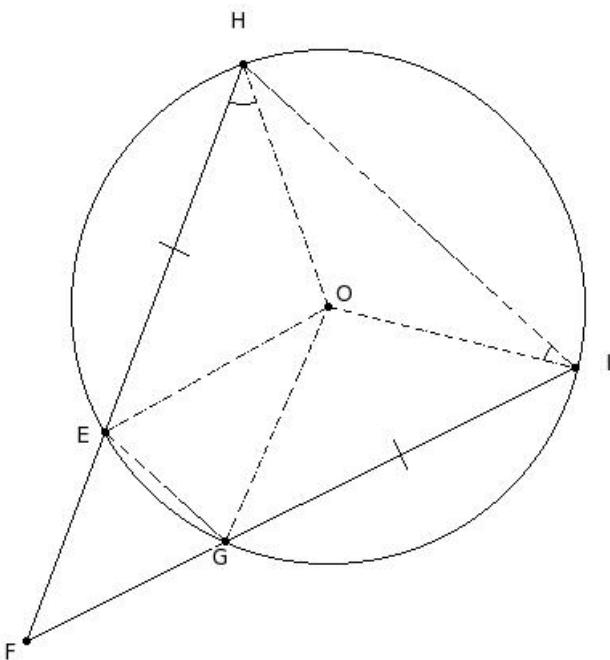
- (i) 72° (ii) 67° (iii) 77° (iv) 92° (v) 62°

87. In the given figure, O is the centre of the circle. Given $\angle DOE = 44^\circ$, $\angle COD = 53^\circ$ and $\angle CGF = 78^\circ$, find $\angle EOF$



- (i) 64° (ii) 89° (iii) 69° (iv) 74° (v) 59°

88. In the given figure, $\angle GFE = 42^\circ$ & $\angle OIH = 29^\circ$, find $\angle OHE$



- (i) 50° (ii) 40° (iii) 45° (iv) 55° (v) 70°

Assignment Key

- 1) (ii)
- 2) (v)
- 3) (iii)
- 4) (i)
- 5) (iv)
- 6) (ii)
- 7) (ii)
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