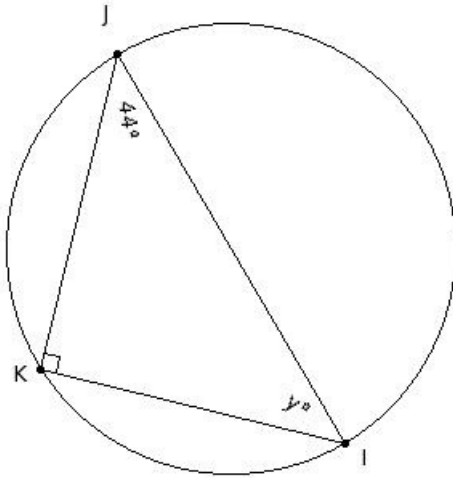


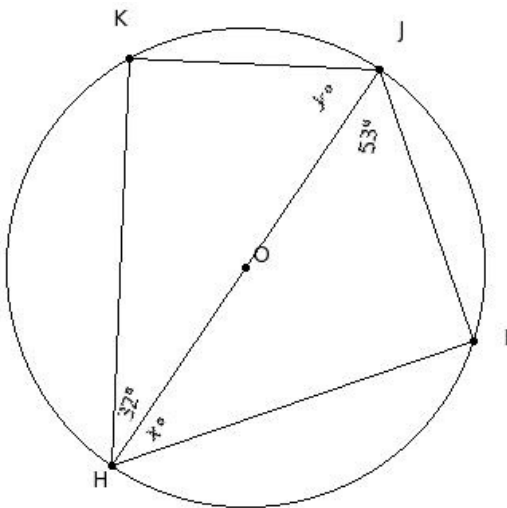


1. Find the missing angle in the following figure?



- (i)  $76^\circ$  (ii)  $61^\circ$  (iii)  $56^\circ$  (iv)  $46^\circ$  (v)  $51^\circ$

2. O is the centre of the circle. If  $\angle HJI = 53^\circ$  and  $\angle JHK = 32^\circ$ , find  $x^\circ, y^\circ$



- (i)  $88^\circ, 57^\circ$  (ii)  $68^\circ, 47^\circ$  (iii)  $58^\circ, 37^\circ$  (iv)  $37^\circ, 58^\circ$  (v)  $48^\circ, 37^\circ$

3. An arc subtends  $90^\circ$  in its alternate segment. The arc is

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

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

- (i)  $210^\circ$  (ii)  $195^\circ$  (iii)  $190^\circ$  (iv)  $180^\circ$  (v)  $185^\circ$

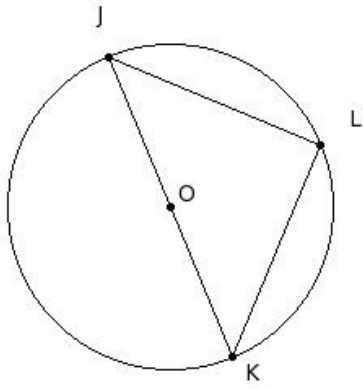
5. The angle subtended by the diameter at any point on the circle is

- (i)  $95^\circ$  (ii)  $105^\circ$  (iii)  $120^\circ$  (iv)  $90^\circ$  (v)  $100^\circ$

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

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

7. In the given figure JL & KL are equal length chords of the circle. Find  $\angle LJK$



- (i)  $60^\circ$  (ii)  $50^\circ$  (iii)  $45^\circ$  (iv)  $75^\circ$  (v)  $55^\circ$

8. In triangle JKL, if a circle is drawn with KL as diameter and if it passes through J it is a

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

## Assignment Key

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1) (iv)

2) (iv)

3) (iv)

4) (iv)

5) (iv)

6) (iv)

7) (iii)

8) (i)