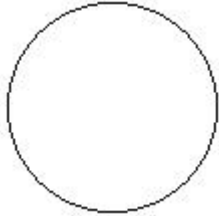


**EduSahara™ Learning Center Assignment****Grade : Class VIII, ICSE****Chapter : Circle****Name : Circle Basics****Licensed To : Teachers and Students for non-commercial use**

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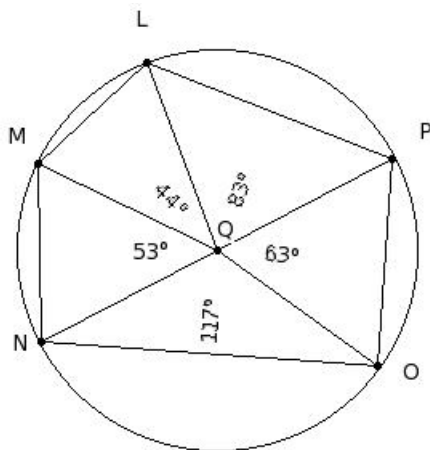
1. Identify the figure below



(i) octagon (ii) decagon (iii) circle (iv) angle (v) quadrilateral

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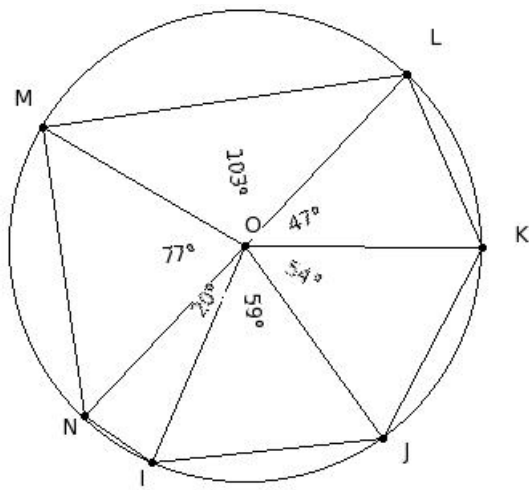
2. The centre of the circle is



(i) O (ii) L (iii) N (iv) M (v) Q

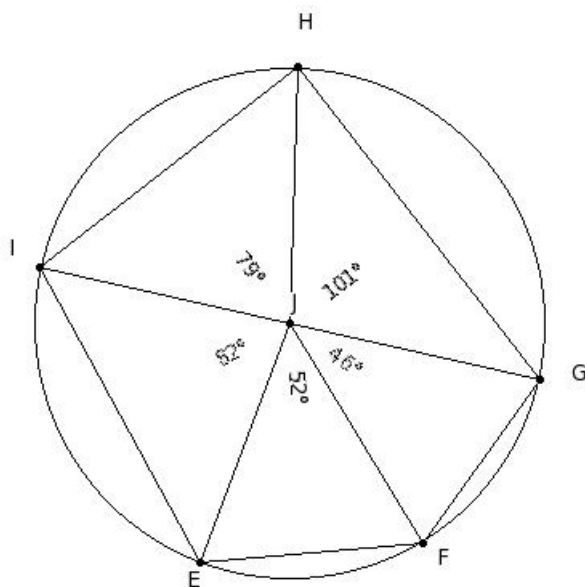
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3. The chords of the circle are



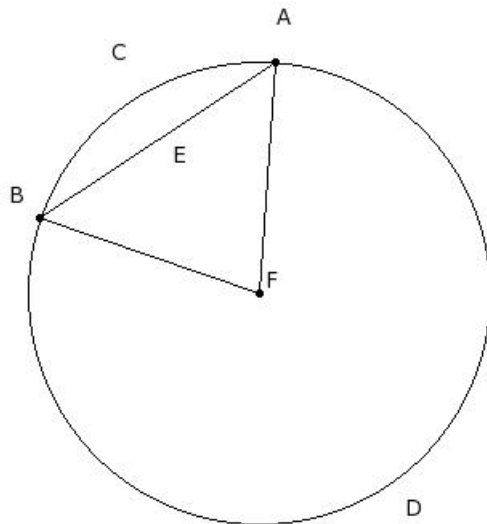
- (i)  $\overline{IJ}, \overline{JK}, \overline{KL}, \overline{LM}, \overline{MN}, \overline{NI}$       (ii)  $\overline{OI}, \overline{OJ}, \overline{OK}, \overline{OL}, \overline{OM}, \overline{ON}$
- (iii)  $\overline{IJ}, \overline{JK}, \overline{KL}, \overline{LM}, \overline{MN}, \overline{NI}, \overline{OI}$       (iv)  $\overline{JK}, \overline{KL}, \overline{LM}, \overline{MN}, \overline{NI}$
- (v)  $\overline{IJ}, \overline{JK}, \overline{KL}, \overline{LM}, \overline{MN}, \overline{NI}, \overline{LN}$

4. The diameters of the circle are



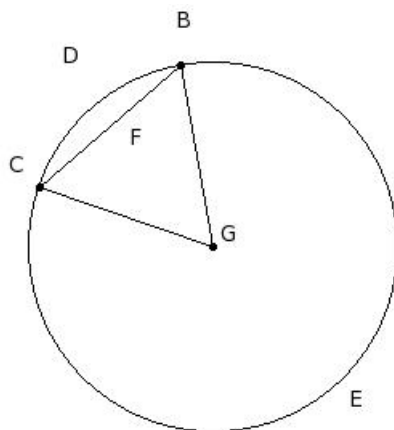
- (i)  $\overline{EF}, \overline{FG}, \overline{GH}, \overline{HI}, \overline{IE}$       (ii)  $\overline{EF}, \overline{FG}, \overline{GH}, \overline{HI}, \overline{IE}, \overline{GI}$
- (iii)  $\overline{JE}, \overline{JF}, \overline{JG}, \overline{JH}, \overline{JI}, \overline{GI}$       (iv)  $\overline{JE}, \overline{JF}, \overline{JG}, \overline{JH}, \overline{JI}$
- (v)  $\overline{GI}$

5. The minor sector of the circle is



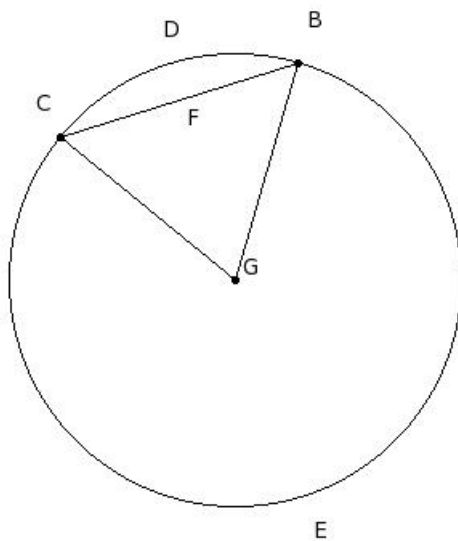
- (i) FADBF (ii) ACB (iii) FACBF (iv) ADB (v) ADBEA
- 

6. The major sector of the circle is



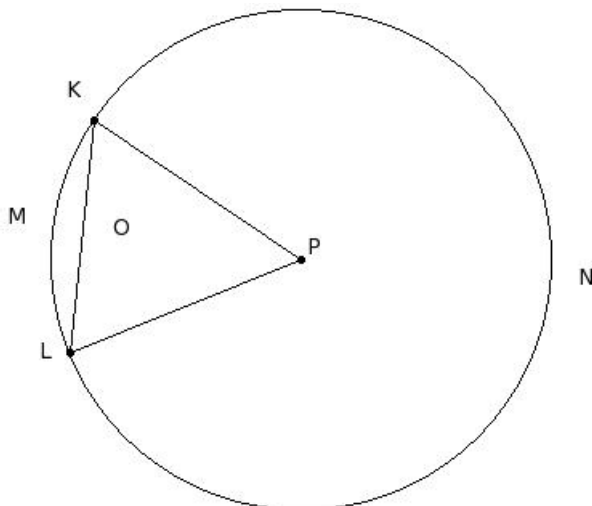
- (i) BECFB (ii) BDCFB (iii) BEC (iv) BDC (v) GBECG
- 

7. The minor arc of the circle is



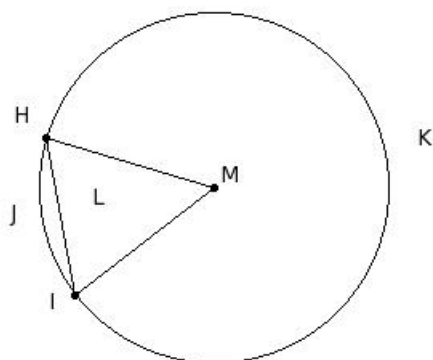
- (i) GBECG (ii) BDC (iii) BECFB (iv) BDCFB (v) BEC

8. The major arc of the circle is



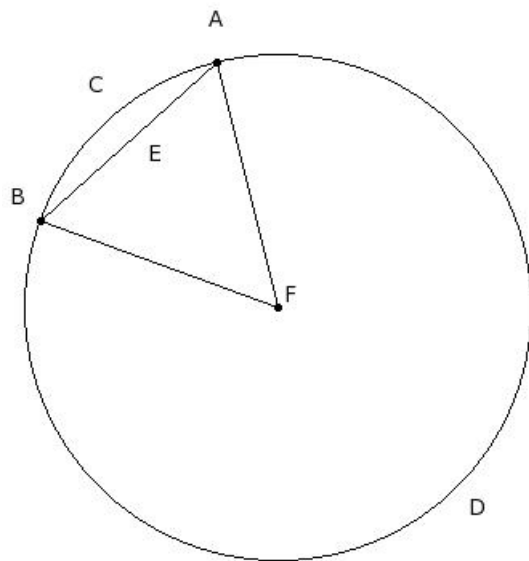
- (i) KNL (ii) PKNLP (iii) KMLOK (iv) KML (v) PKMLP

9. The minor segment of the circle is



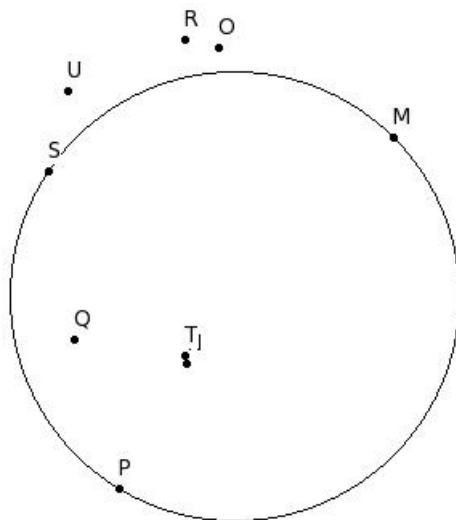
- (i) HJILH (ii) MHKIM (iii) HKI (iv) MHJIM (v) HJI

10. The major segment of the circle is



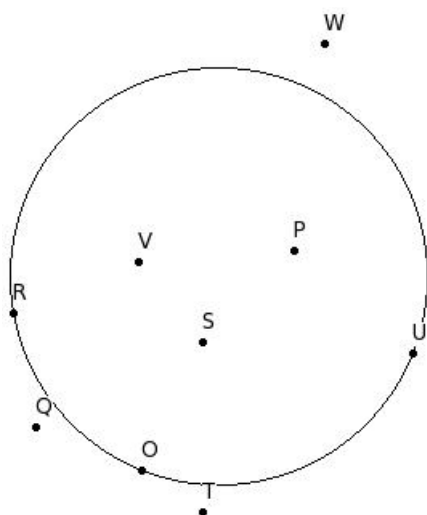
- (i) FADBF (ii) ADB (iii) ACBEA (iv) ADBEA (v) ACB

11. Find the points belonging to the circle



- (i) {N,Q,T} (ii) {Q,S,M} (iii) {M,P,S} (iv) {O,R,U} (v) {S,P,O}

12. Find the points belonging to the inside of the circle



- (i) {P,S,V} (ii) {O,R,U} (iii) {V,P,Q} (iv) {S,U,P} (v) {Q,T,W}

13. The mid-point of the diameter of a circle is called

- (i) circumference (ii) major segment (iii) chord (iv) semi-circle (v) centre

14. A line segment joining any point on the circle with its centre is called

- (i) chord (ii) semi-circle (iii) diameter (iv) major segment (v) radius

15. A line segment having its end points on the circle is called a

- (i) segment (ii) circumference (iii) centre (iv) chord (v) semi-circle

16. A chord that passes through the centre of the circle is called

- (i) centre (ii) circumference (iii) radius (iv) diameter (v) semi-circle

17. A chord of a circle divides the whole circular region into two parts, each called a

- (i) segment (ii) major segment (iii) centre (iv) radius (v) circumference

18. The segment of the circle containing the centre of the circle is called

- (i) major segment (ii) chord (iii) diameter (iv) centre (v) semi-circle

19. Half of a circle is called

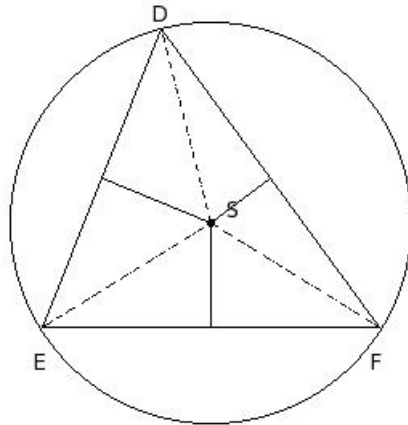
- (i) major segment (ii) diameter (iii) segment (iv) chord (v) semi-circle

20. The perimeter of a circle is called

- (i) segment (ii) circumference (iii) major segment (iv) semi-circle (v) centre

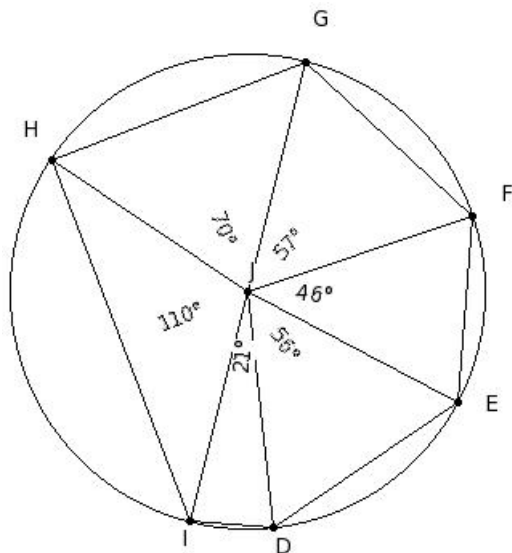
21. In the given triangle S is the circumcentre. If  $SD = 12.50$  cm, find the circumference of the

circumcircle



- (i) 80.6 cm (ii) 76.6 cm (iii) 78.6 cm (iv) 79.6 cm (v) 77.6 cm

22. The radii of the circle are

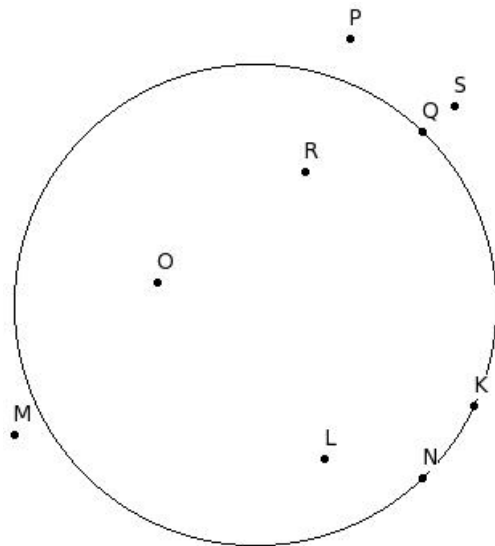


- (i)  $\overline{DE}, \overline{EF}, \overline{FG}, \overline{GH}, \overline{HI}, \overline{ID}, \overline{GI}$  (ii)  $\overline{JD}, \overline{JE}, \overline{JF}, \overline{JG}, \overline{JH}, \overline{JI}$   
 (iii)  $\overline{DE}, \overline{EF}, \overline{FG}, \overline{GH}, \overline{HI}, \overline{ID}$  (iv)  $\overline{EF}, \overline{FG}, \overline{GH}, \overline{HI}, \overline{ID}$   
 (v)  $\overline{DE}, \overline{EF}, \overline{FG}, \overline{GH}, \overline{HI}, \overline{ID}, \overline{JD}$

23. The distance around the circle is called

- (i) circumference (ii) diameter (iii) arc (iv) chord (v) radius

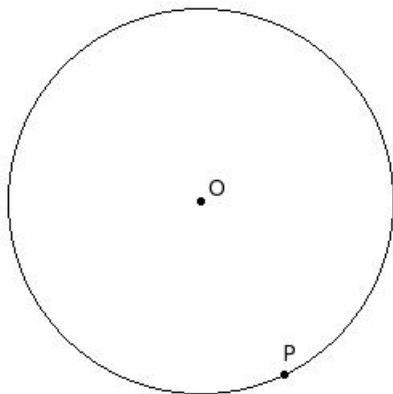
24. Find the points belonging to the outside of the circle



- (i)  $\{L, O, R\}$  (ii)  $\{P, M, Q\}$  (iii)  $\{L, S, P\}$  (iv)  $\{M, P, S\}$  (v)  $\{K, N, Q\}$

'O' is the centre of a circle of radius 'r' and 'P' is any point in its plane.

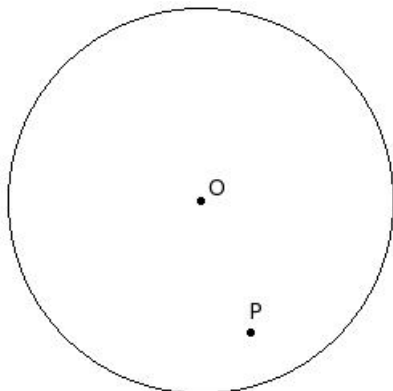
25. If  $\overline{OP} = r$ , then P is



- (i) outside the circle (ii) on the circle (iii) inside the circle

'O' is the centre of a circle of radius 'r' and 'P' is any point in its plane.

26. If  $\overline{OP} < r$ , then P is

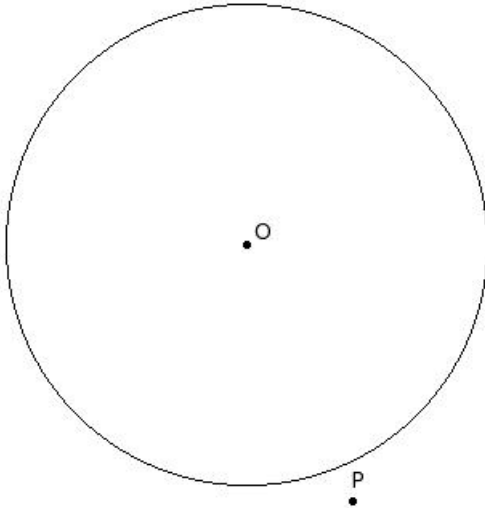




- (i) on the circle (ii) outside the circle (iii) inside the circle
- 

'O' is the centre of a circle of radius 'r' and 'P' is any point in its plane.

27. If  $\overline{OP} > r$ , then P is



- (i) inside the circle (ii) on the circle (iii) outside the circle
- 

28. Which of the following statements are true?

- a) Each radius of a circle is also a chord of the circle
- b) A circle consists of an infinite number of points
- c) A line can meet a circle at most at two points
- d) Every circle has a unique diameter
- e) Every circle has a unique centre

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

29. Which of the following statements are true?

- a) Two semi-circles of a circle together make the whole circle
- b) Every circle has a unique diameter
- c) An infinite number of chords may be drawn for a circle
- d) One and only one tangent can be drawn to a circle from a point outside it
- e) An infinite number of diameters may be drawn for a circle

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

30. Which of the following statements are true?

- a) Diameter of a circle is a part of the semi-circle of the circle
- b) One and only one tangent can be drawn to a circle from a point outside it
- c) A secant of a circle is a segment having its end points on the circle
- d) Every circle has a unique diameter
- e) One and only one tangent can be drawn to pass through a point on a circle

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

31. If the diameter of a circle is 168 cm, what is its radius?

- (i) 84 cm (ii) 82 cm (iii) 85 cm (iv) 86 cm (v) 83 cm
- 

32. If the radius of a circle is 84 cm, what is its diameter?

- (i) 168 cm (ii) 169 cm (iii) 166 cm (iv) 167 cm (v) 170 cm
- 

33. Two circles with equal radii are

- (i) congruent  
(ii) not similar  
(iii) concentric  
(iv) only similar but not congruent
- 

34. Which of the following figures represent a chord ?

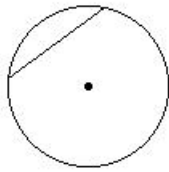


fig I

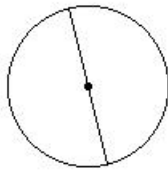


fig II

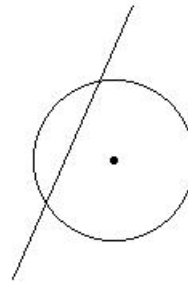


fig III

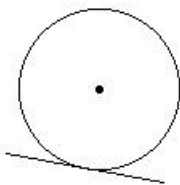


fig IV

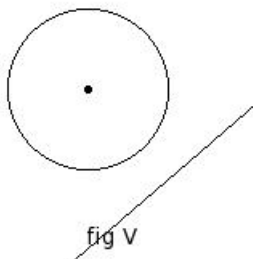


fig V

- (i) fig V (ii) fig II (iii) fig IV (iv) fig I (v) fig III
- 

35. Which of the following figures represent a diameter ?

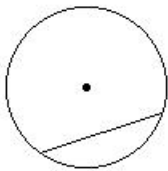


fig I

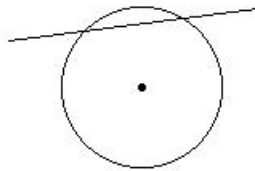


fig II

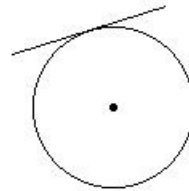


fig III

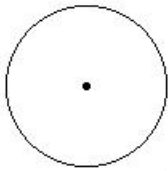


fig IV

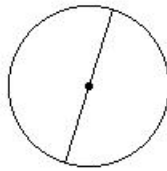


fig V

(i) fig II (ii) fig IV (iii) fig V (iv) fig III (v) fig I

36. Which of the following figures represent a secant ?

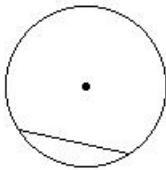


fig I

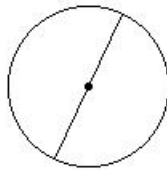


fig II

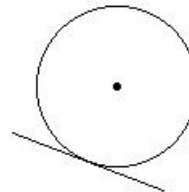


fig III

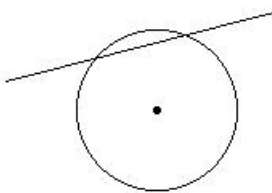


fig IV

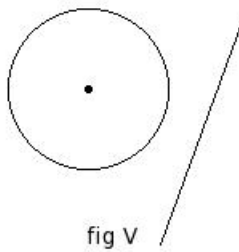


fig V

(i) fig II (ii) fig V (iii) fig III (iv) fig IV (v) fig I

37. Which of the following figures represent a tangent ?

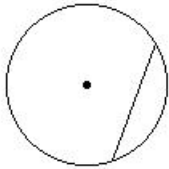


fig I

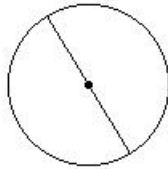


fig II

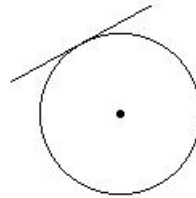


fig III

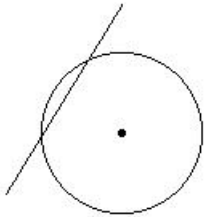


fig IV

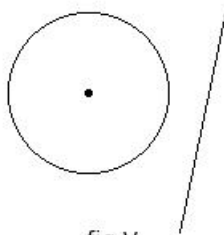


fig V

(i) fig III (ii) fig V (iii) fig II (iv) fig IV (v) fig I

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## Assignment Key

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- 1) (iii)
- 2) (v)
- 3) (i)
- 4) (v)
- 5) (iii)
- 6) (v)
- 7) (ii)
- 8) (i)
- 9) (i)
- 10) (iv)
- 11) (iii)
- 12) (i)
- 13) (v)
- 14) (v)
- 15) (iv)
- 16) (iv)
- 17) (i)
- 18) (i)
- 19) (v)
- 20) (ii)
- 21) (iii)
- 22) (ii)
- 23) (i)
- 24) (iv)
- 25) (ii)
- 26) (iii)
- 27) (iii)
- 28) (ii)
- 29) (ii)
- 30) (v)
- 31) (i)
- 32) (i)
- 33) (i)
- 34) (iv)
- 35) (iii)
- 36) (iv)
- 37) (i)