



1. The English alphabet letter 'M' has how many lines of symmetry?

- (i) zero (ii) one (iii) infinite (iv) three (v) two

2. The English alphabet letter 'H' has how many lines of symmetry?

- (i) zero (ii) two (iii) one (iv) infinite (v) three

3. The English alphabet letter 'G' has how many lines of symmetry?

- (i) three (ii) one (iii) two (iv) zero (v) infinite

4. The English alphabet letter 'O' has how many lines of symmetry?

- (i) infinite (ii) zero (iii) three (iv) one (v) two

5. Which of the following English alphabet letters have one line of symmetry?

- (i) G (ii) I (iii) D (iv) X (v) L

6. Which of the following English alphabet letters have two lines of symmetry?

- (i) D (ii) S (iii) A (iv) P (v) X

7. Which of the following English alphabet letters have zero lines of symmetry?

- (i) S (ii) W (iii) X (iv) H (v) E

8. Which of the following figures have no line of symmetry?

- a) scalene triangle
- b) equilateral triangle
- c) line segment
- d) angle with equal arms
- e) isosceles triangle
- f) angle with unequal arms

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

9. Which of the following figures have one line of symmetry?

- a) line segment
- b) isosceles right angled triangle
- c) isosceles triangle
- d) angle with equal arms
- e) right angled triangle
- f) equilateral triangle
- g) scalene triangle
- h) angle with unequal arms

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

10. Which of the following are true?

- a) A figure can have multiple axes of symmetry.
- b) A figure can be broken into two congruent shapes about its axis of symmetry.
- c) Line of symmetry and axis of symmetry are same.
- d) Line of symmetry is perpendicular to axis of symmetry.
- e) Axis of symmetry of a figure need not intersect with the figure at any point.
- f) An obtuse angled triangle has zero lines of symmetry.
- g) A line segment has one line of symmetry.
- h) For every point on the figure on one side of the axis of symmetry, there is a corresponding point on the other side.

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

11. Which of the following figures have two lines of symmetry?

- a) rectangle
- b) angle with equal arms
- c) square
- d) isosceles triangle
- e) isosceles trapezium
- f) kite
- g) line segment
- h) scalene triangle

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

12. Which of the following figures have three lines of symmetry?

- a) line segment
- b) isosceles right angled triangle
- c) scalene triangle
- d) right angle triangle
- e) equilateral triangle
- f) isosceles triangle

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

13. A median is an axis of symmetry in which of the given figures?

- a) equilateral triangle
- b) right angle triangle
- c) isosceles right angled triangle
- d) isosceles triangle
- e) scalene triangle

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

14. Which of the following are true?

- a) Lines of symmetry of a regular polygon are nothing but the diagonals of a regular polygon.
- b) If a polygon is not regular, it will have less number of axes of symmetry than the number of sides.
- c) If a quadrilateral has four lines of symmetry, then it is a regular polygon.
- d) An n-sided regular polygon has $n/2$ lines of symmetry if n is even.
- e) A regular polygon of n sides will have n lines of symmetry.
- f) Line of symmetry divides the polygon into two identical shapes.
- g) If a triangle has two lines of symmetry, then it is a regular polygon.

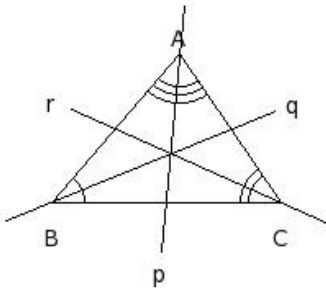
(i) {g,a,e} (ii) {a,b} (iii) {d,f,b} (iv) {b,c,e,f} (v) {d,c}

15. Which of the following figures have infinite lines of symmetry?

- a) line segment
- b) sector of a circle
- c) semicircle
- d) circle
- e) n-sided polygon where n is very large

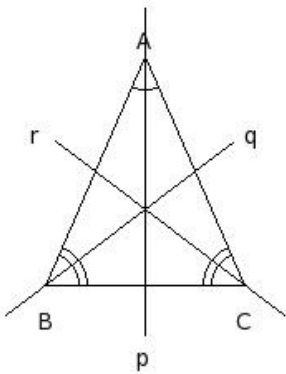
(i) {b,d} (ii) {c,e,d} (iii) {d} (iv) {a,d}

16. Identify the line(s) of symmetry in the following figure



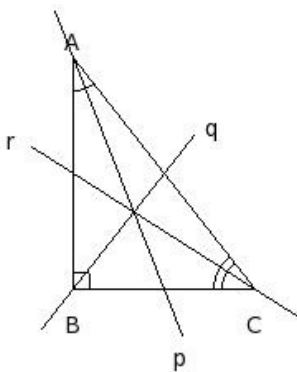
(i) r (ii) p (iii) q (iv) none (v) { p, q, r }

17. Identify the line(s) of symmetry in the following figure



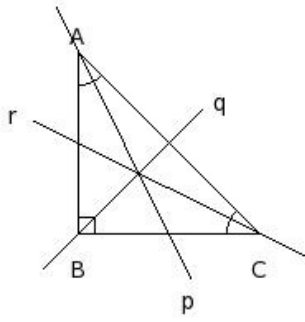
(i) { p, q, r } (ii) q (iii) p (iv) none (v) r

18. Identify the line(s) of symmetry in the following figure



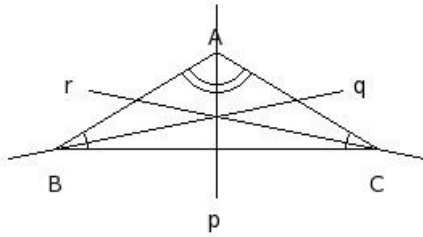
(i) { p, q, r } (ii) r (iii) q (iv) p (v) none

19. Identify the line(s) of symmetry in the following figure



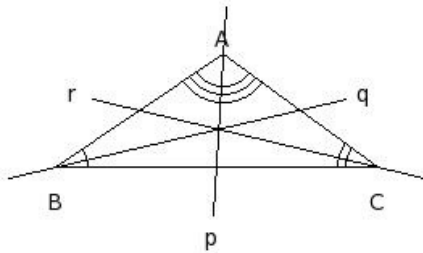
- (i) p (ii) none (iii) { p, q, r } (iv) r (v) q

20. Identify the line(s) of symmetry in the following figure



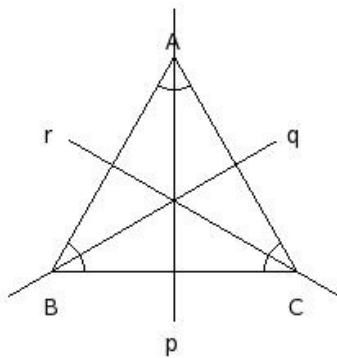
- (i) p (ii) { p, q, r } (iii) none (iv) r (v) q

21. Identify the line(s) of symmetry in the following figure



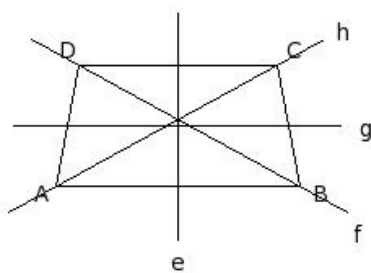
- (i) p (ii) r (iii) q (iv) none (v) { p, q, r }

22. Identify the line(s) of symmetry in the following figure



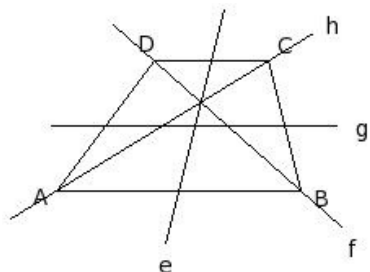
- (i) r (ii) q (iii) p (iv) none (v) { p, q, r }

23. Which of the following are line(s) of symmetry for the given isosceles trapezium?



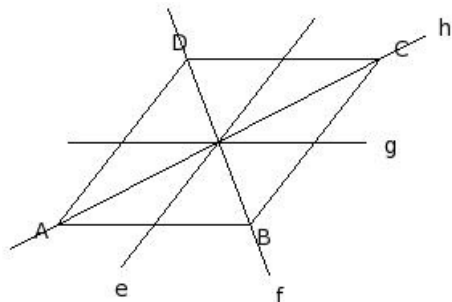
- (i) e (ii) none (iii) h (iv) { f, h } (v) f

24. Which of the following are line(s) of symmetry for the given trapezium?



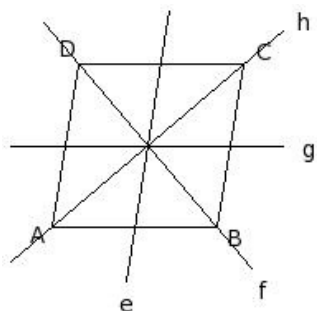
- (i) h (ii) { f, h } (iii) none (iv) { e, f, g, h } (v) e

25. Which of the following are line(s) of symmetry for the given parallelogram?



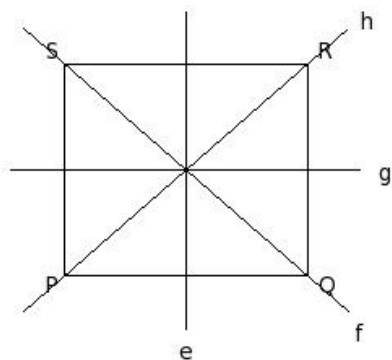
- (i) none (ii) g (iii) { e, f, g, h } (iv) e (v) f

26. Which of the following are line(s) of symmetry for the given rhombus?



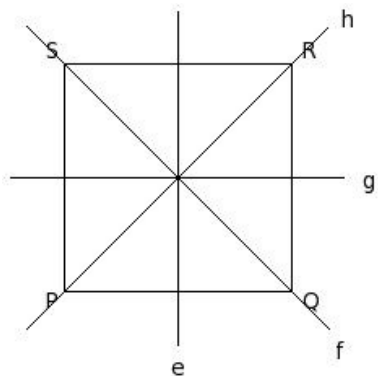
- (i) g (ii) e (iii) { f, h } (iv) h (v) { e, g }

27. Which of the following are line(s) of symmetry for the given rectangle?



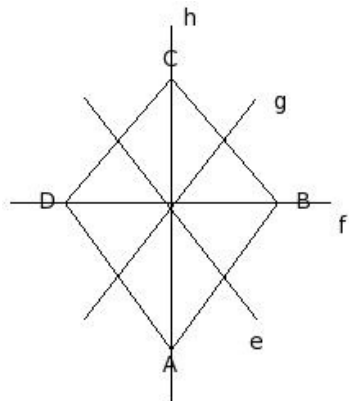
- (i) none (ii) { e, g } (iii) { f, h } (iv) f (v) e

28. Which of the following are line(s) of symmetry for the given square?



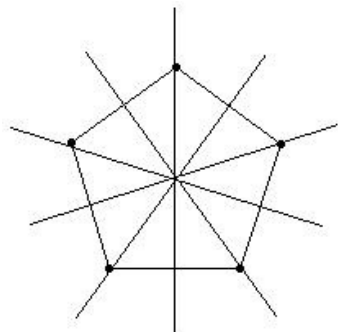
- (i) { f, h } (ii) { e, f, g, h } (iii) h (iv) { e, g } (v) g

29. Which of the following are line(s) of symmetry for the given kite?



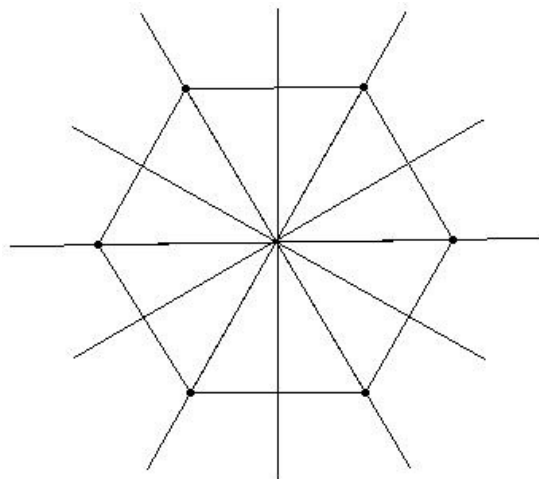
- (i) { f, h } (ii) { e, g } (iii) h (iv) e (v) g

30. Given figure has how many lines of symmetry?



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

31. Given figure has how many lines of symmetry?



- (i) 9 (ii) 4 (iii) 6 (iv) 7 (v) 5

Assignment Key

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