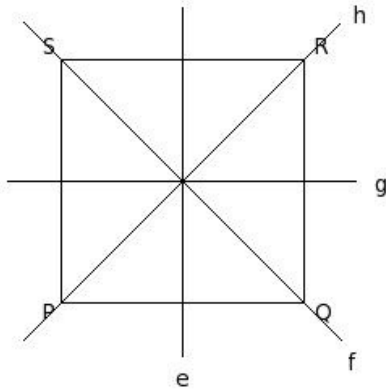




1. Which of the following are line(s) of symmetry for the given square?



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

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

- (i) F (ii) E (iii) H (iv) X (v) B

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

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

4. Which of the following are true?

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

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

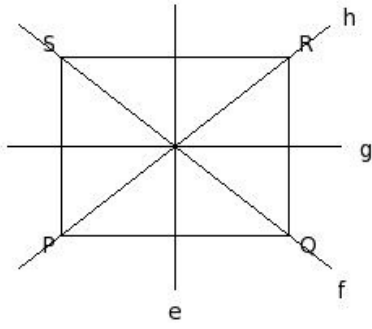
5. Which of the following English alphabet letters have infinite lines of symmetry?

- (i) K (ii) I (iii) H (iv) T (v) O

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

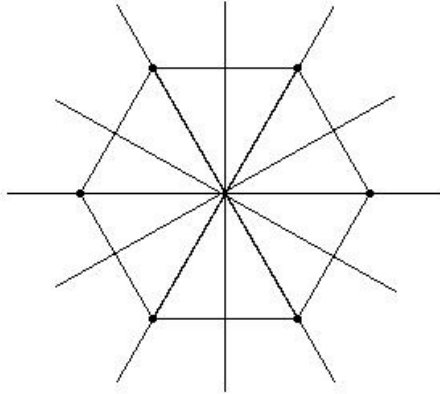
- (i) zero (ii) three (iii) infinite (iv) one (v) two

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



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

8. Given figure has how many lines of symmetry?



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

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

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

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

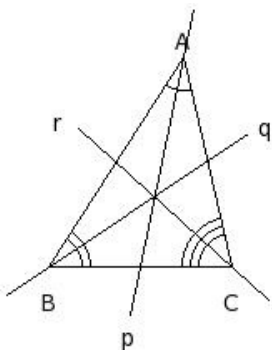
10. The English alphabet letter 'X' has how many lines of symmetry?

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

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

- (i) J (ii) W (iii) M (iv) I (v) Z

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



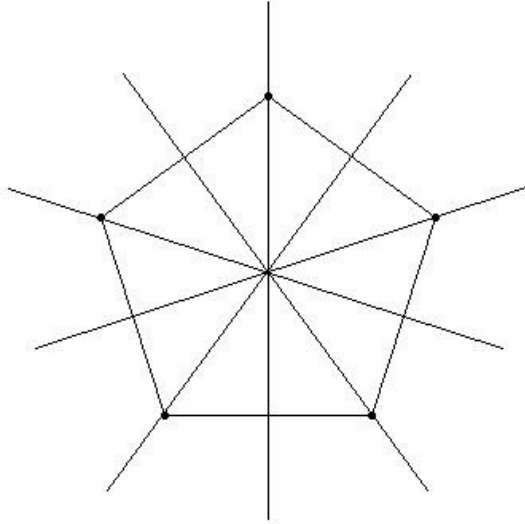
- (i) p (ii) r (iii) q (iv) none (v) { p, q, r }

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

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

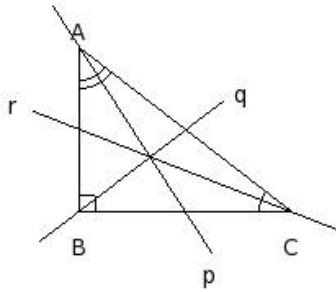
(i) {a,f,c} (ii) {b,f} (iii) {a,c} (iv) {c,f} (v) {d,e,c}

14. Given figure has how many lines of symmetry?



(i) 5 (ii) 2 (iii) 4 (iv) 6 (v) 8

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

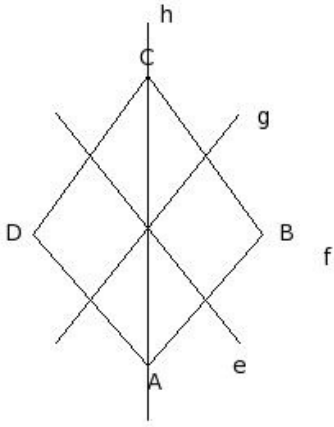


(i) none (ii) p (iii) {p, q, r} (iv) r (v) q

16. The English alphabet letter 'F' has how many lines of symmetry?

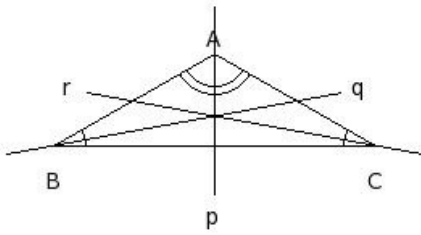
(i) zero (ii) two (iii) one (iv) three (v) infinite

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



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

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



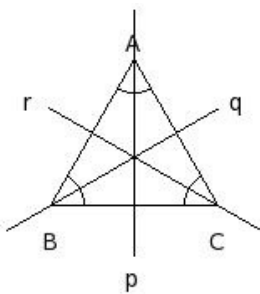
- (i) r (ii) none (iii) { p, q, r } (iv) p (v) q

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

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

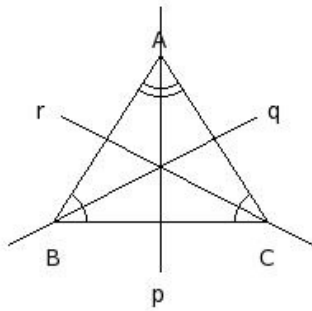
- (i) {c} (ii) {b,c} (iii) {a,c} (iv) {f,c} (v) {d,e,c}

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



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

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

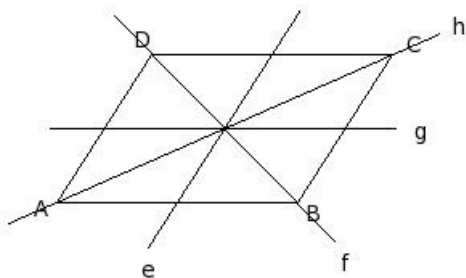


- (i) none (ii) q (iii) { p, q, r } (iv) r (v) p

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

- (i) X (ii) G (iii) U (iv) N (v) I

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



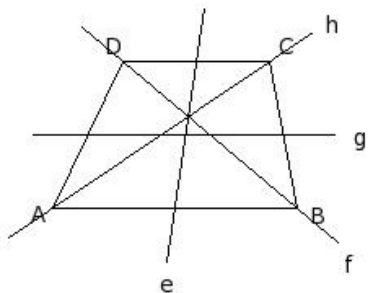
- (i) { f, h } (ii) g (iii) none (iv) f (v) e

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

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

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

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



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

Assignment Key

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