



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

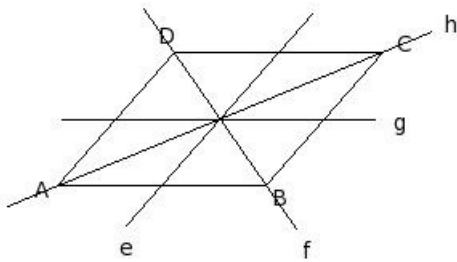
- a) angle with equal arms
- b) equilateral triangle
- c) isosceles triangle
- d) line segment
- e) angle with unequal arms
- f) scalene triangle

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

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

(i) E (ii) C (iii) Q (iv) I (v) X

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



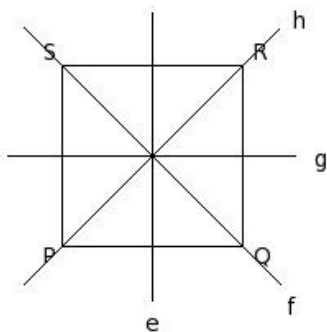
(i) none (ii) g (iii) f (iv) { f, h } (v) { e, f, g, h }

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

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

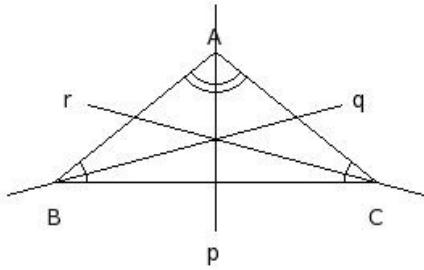
(i) {a,b} (ii) {a,d,e} (iii) {a,b,c} (iv) {b,c,e} (v) {d,c}

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



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

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

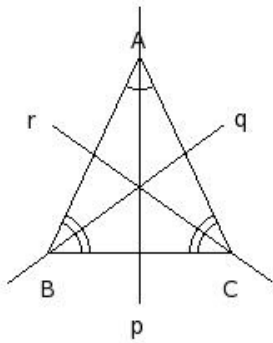


- (i) { p, q, r } (ii) q (iii) p (iv) none (v) r

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

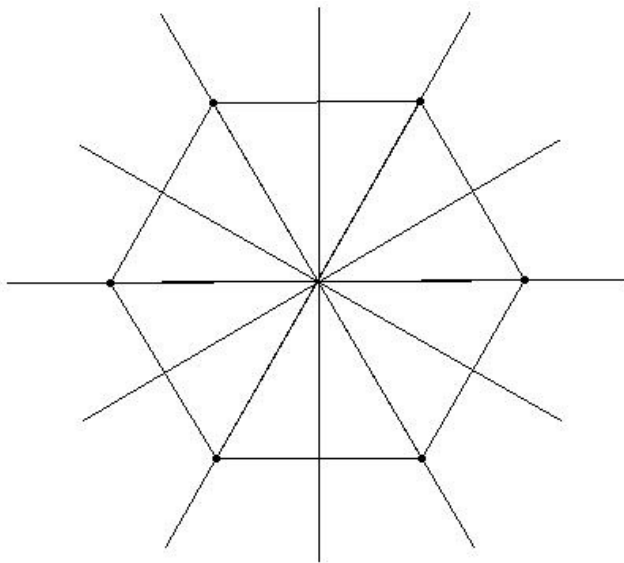
- (i) three (ii) infinite (iii) one (iv) zero (v) two

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



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

9. Given figure has how many lines of symmetry?

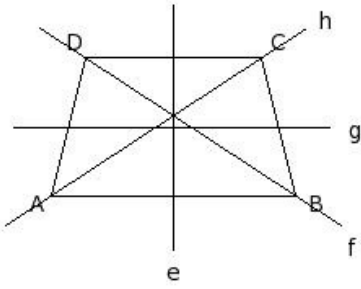


- (i) 6 (ii) 5 (iii) 4 (iv) 7 (v) 8

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

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

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



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

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

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

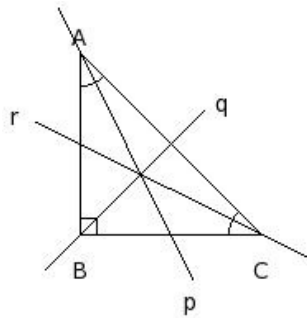
- (i) {b} (ii) {a,b} (iii) {d,e,b} (iv) {c,b}

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

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

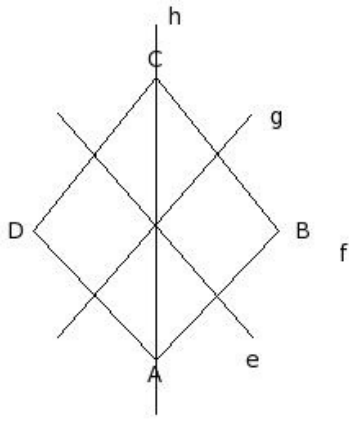
- (i) {d} (ii) {f,d} (iii) {c,e,d} (iv) {a,d} (v) {b,d}

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



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

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



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

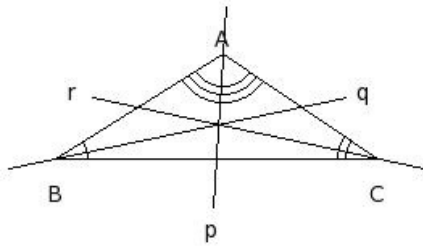
16. Which of the following English alphabet letters have one line of symmetry?

- (i) X (ii) Z (iii) I (iv) E (v) G

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

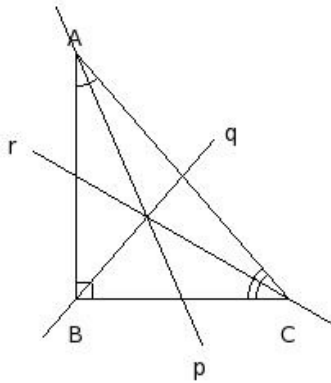
- (i) S (ii) H (iii) C (iv) E (v) P

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



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

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



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

20. Which of the following are true?

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

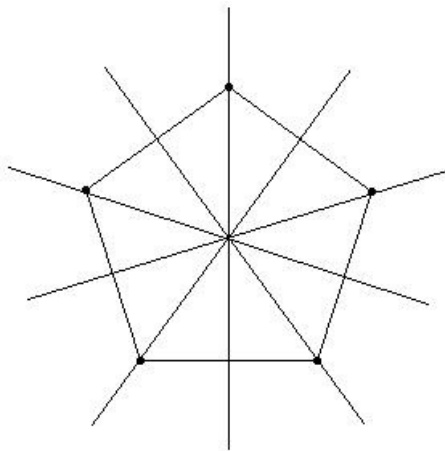
(i) {b,h,a} (ii) {a,d,e,h} (iii) {c,d} (iv) {b,a} (v) {f,g,e}

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

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

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

22. Given figure has how many lines of symmetry?



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

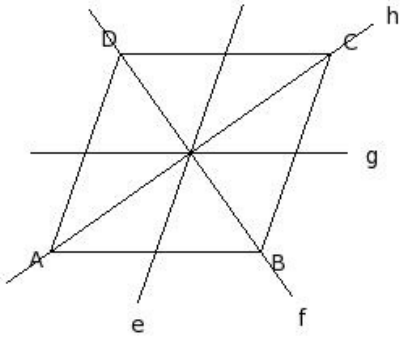
23. The English alphabet letter 'X' has how many lines of symmetry?

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

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

(i) C (ii) I (iii) O (iv) X (v) A

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



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

## Assignment Key

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