



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

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

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

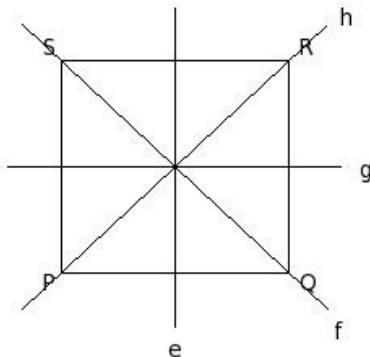
- (i) V (ii) Q (iii) R (iv) U (v) I

3. Which of the following are true?

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

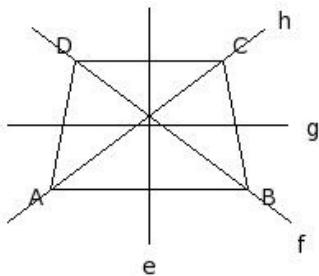
- (i) {c,f,b} (ii) {a,b} (iii) {g,a,e} (iv) {c,d} (v) {b,d,e,f}

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



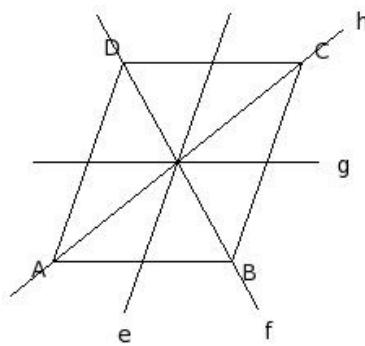
- (i) { e, g } (ii) f (iii) g (iv) none (v) h

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



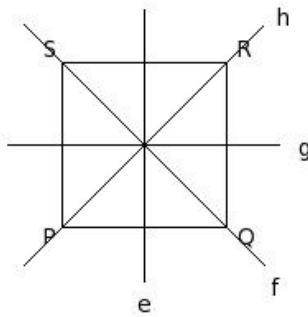
- (i) { f, h } (ii) e (iii) none (iv) h (v) f

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



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

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



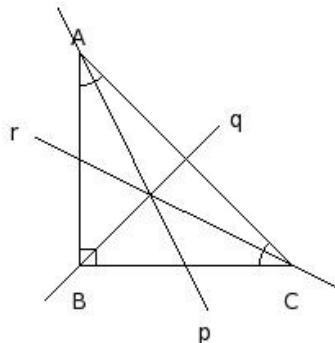
(i) e (ii) g (iii) { e, f, g, h } (iv) none (v) { f, h }

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

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

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

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

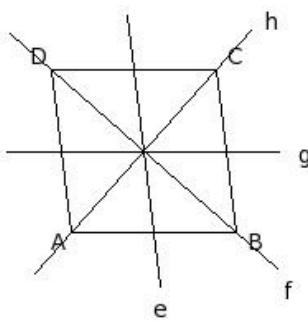


(i) none (ii) p (iii) r (iv) q (v) { p, q, r }

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

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

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

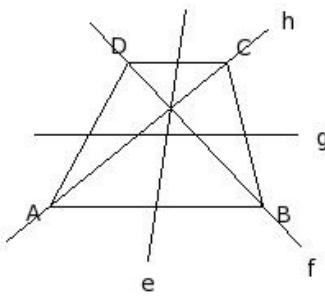


(i) f (ii) { f, h } (iii) { e, g } (iv) h (v) g

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

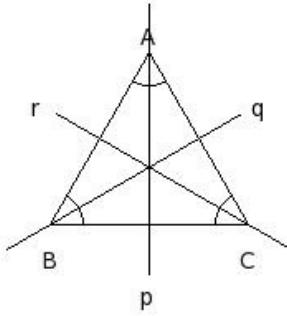
(i) three (ii) zero (iii) two (iv) infinite (v) one

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



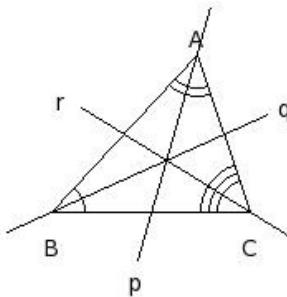
(i) { e, f, g, h } (ii) h (iii) f (iv) none (v) g

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



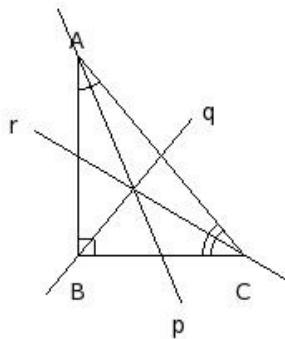
(i) r (ii) p (iii) { p, q, r } (iv) q (v) none

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



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

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



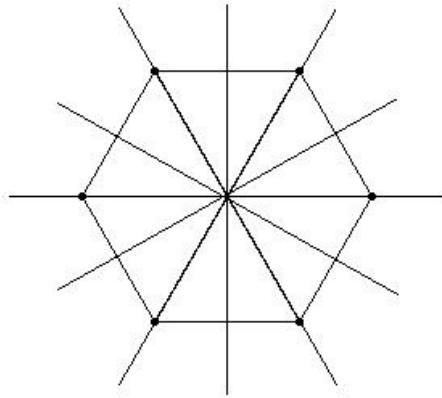
(i) p (ii) { p, q, r } (iii) q (iv) none (v) r

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

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

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

18. Given figure has how many lines of symmetry?



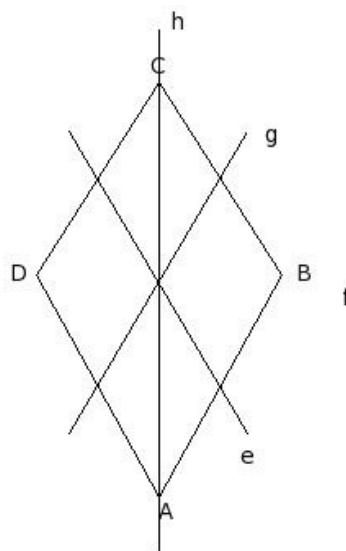
(i) 6 (ii) 7 (iii) 9 (iv) 5 (v) 3

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

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

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

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

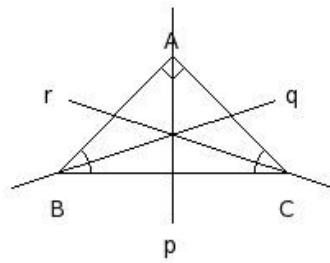


(i) g (ii) none (iii) e (iv) f (v) h

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

(i) A (ii) X (iii) B (iv) L (v) H

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

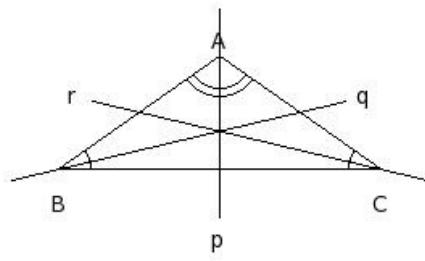


(i) q (ii) r (iii) p (iv) { p, q, r } (v) none

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

(i) A (ii) Q (iii) N (iv) H (v) I

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



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

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

(i) X (ii) O (iii) M (iv) U (v) I

Assignment Key

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