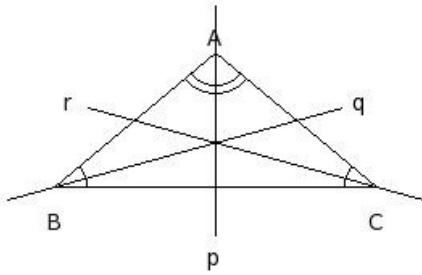


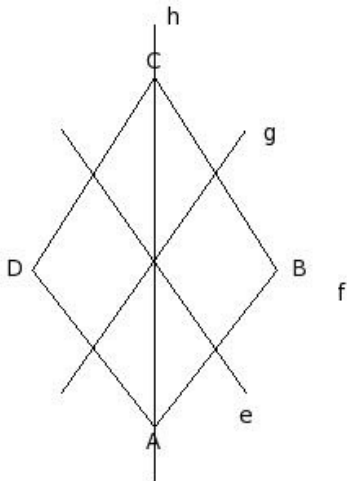


1. Identify the line(s) of symmetry in the following figure



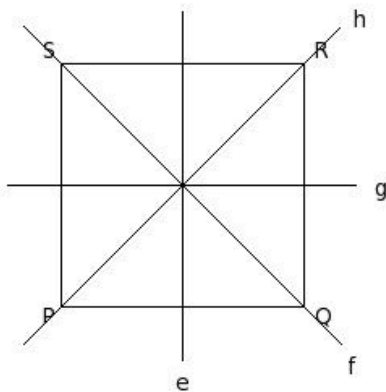
(i) { p, q, r } (ii) none (iii) q (iv) p (v) r

2. 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) none

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



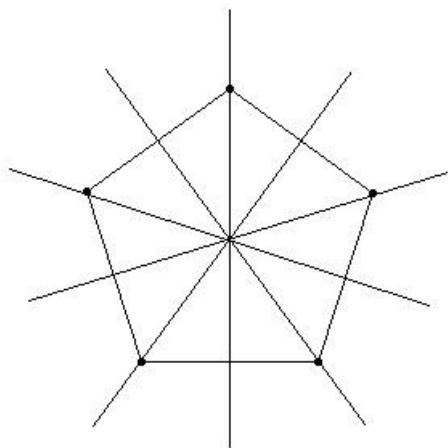
(i) { e, f, g, h } (ii) g (iii) h (iv) { e, g } (v) f

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

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

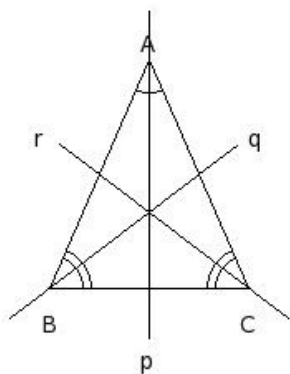
(i) {c} (ii) {b,c} (iii) {d,e,c} (iv) {a,c}

5. Given figure has how many lines of symmetry?



(i) 5 (ii) 6 (iii) 4 (iv) 8 (v) 3

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



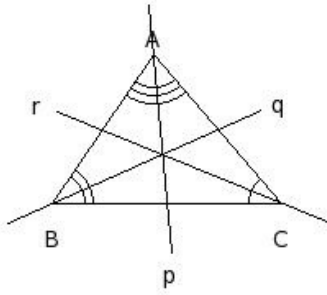
(i) p (ii) r (iii) q (iv) none (v) { p, q, r }

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

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

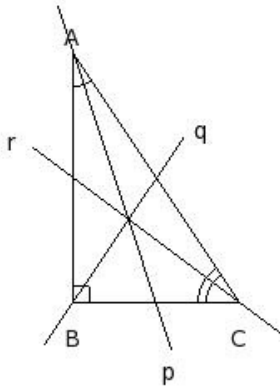
(i) {a,d,e} (ii) {c,d} (iii) {b,a,d} (iv) {b,a} (v) {b,c,e}

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



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

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



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

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

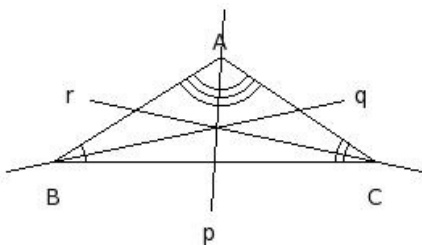
- (i) I (ii) K (iii) R (iv) F (v) X

11. Which of the following are true?

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

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

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



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

13. The English alphabet letter 'Q' has how many lines of symmetry?

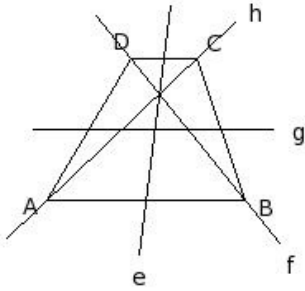
- (i) two (ii) three (iii) one (iv) zero (v) infinite

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

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

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

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



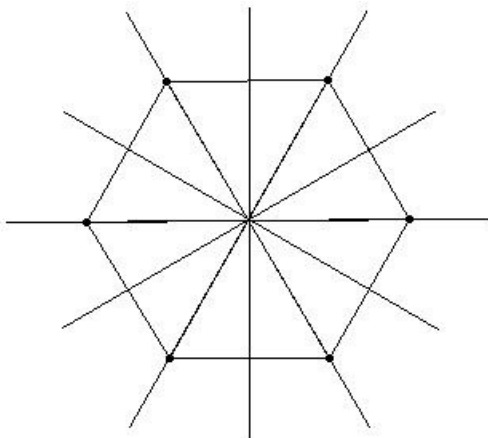
(i) h (ii) f (iii) { e, g } (iv) { f, h } (v) none

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

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

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

17. Given figure has how many lines of symmetry?



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

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

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

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

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

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

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

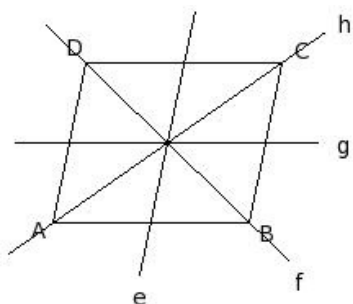
20. The English alphabet letter 'O' has how many lines of symmetry?

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

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

(i) I (ii) L (iii) D (iv) B (v) G

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



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

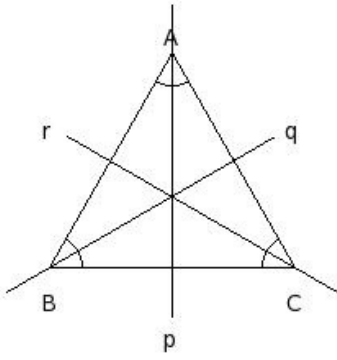
23. The English alphabet letter 'M' has how many lines of symmetry?

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

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

(i) H (ii) T (iii) X (iv) R (v) E

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



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

Assignment Key

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