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

    (i) E   (ii) H   (iii) Y   (iv) X   (v) S

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

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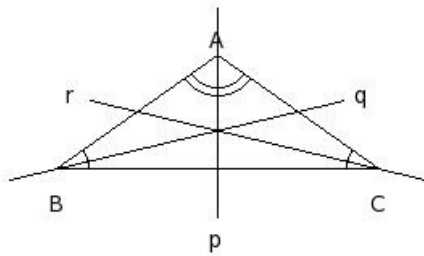   e) isosceles right angled triangle

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

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

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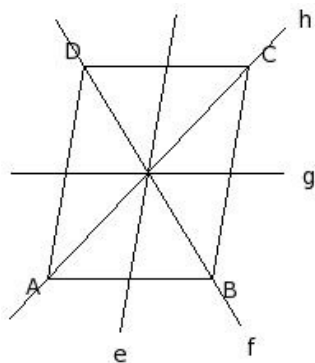   f) isosceles triangle

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

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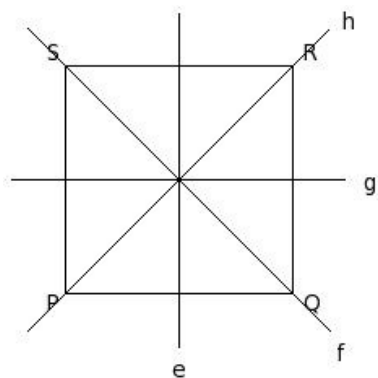

    (i) r   (ii) q   (iii) { p, q, r }   (iv) p   (v) none

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

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

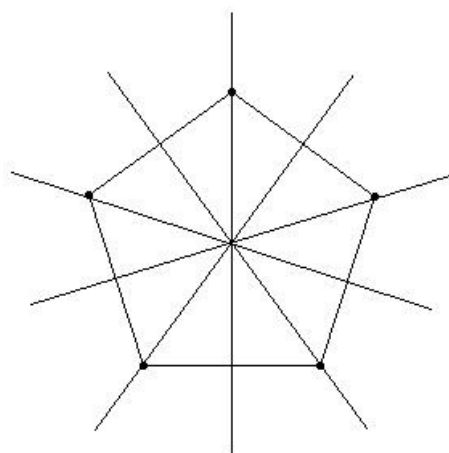6. Which of the following are line(s) of symmetry for the given square?

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

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

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

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8. Given figure has how many lines of symmetry?

(i) 3 (ii) 5 (iii) 8 (iv) 4 (v) 6
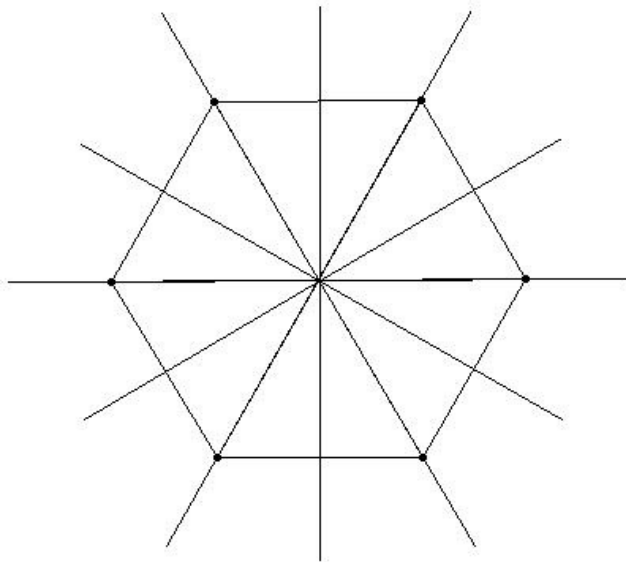
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9. Which of the following English alphabet letters have one line of symmetry?

(i) A (ii) S (iii) X (iv) Q (v) H

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10. Which of the following English alphabet letters have two lines of symmetry?
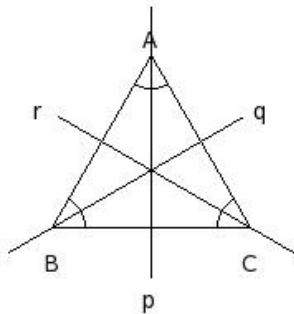
(i) X (ii) Z (iii) C (iv) E (v) N
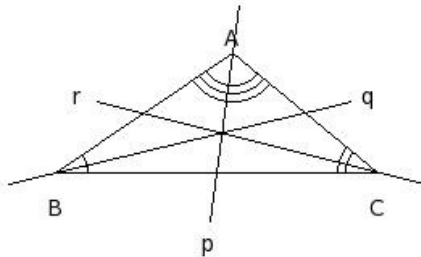
11. Given figure has how many lines of symmetry?

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

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

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

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

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

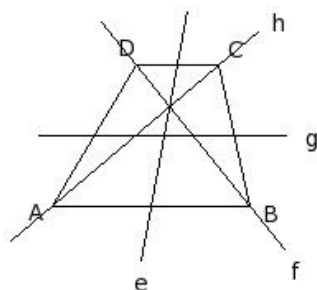14. Which of the following figures have one line of symmetry?

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

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

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

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

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

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

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

(i) V (ii) X (iii) W (iv) I (v) O

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

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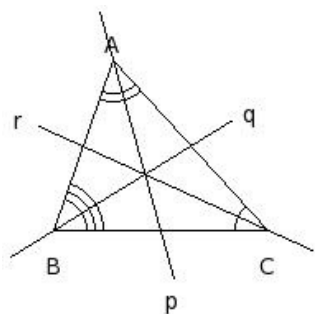c) line segment
d) circle
e) sector of a circle

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

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

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

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

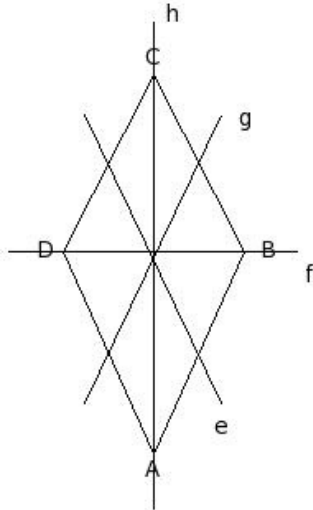20. Identify the line(s) of symmetry in the following figure

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

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

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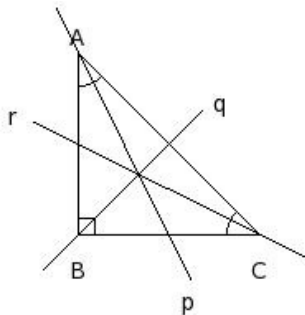e) isosceles triangle
f) equilateral triangle

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

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

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

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

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

24. Which of the following are true?

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

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

25. The English alphabet letter 'I' has how many lines of symmetry?

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

Assignment Key

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