Line of symmetry

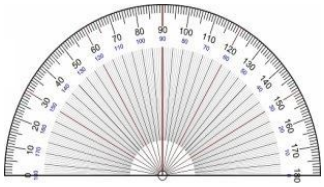
1. **In the given figure, check whether the figures are symmetric or not. Also draw the lines of symmetry.**

(i) 

(ii) 

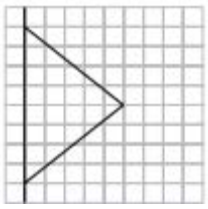
(iii) 

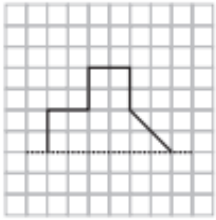
(iv) 

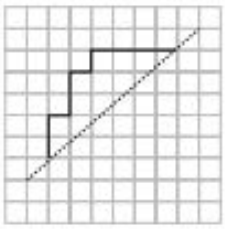
(v) 

(vi) 

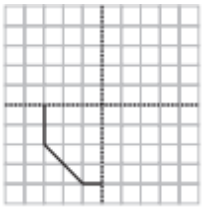
2. **Copy the following on a squared paper and complete them in such a way that the dotted line is the line of symmetry.**

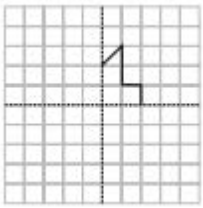
a. 

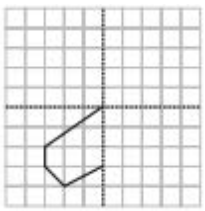
b. 

c. 

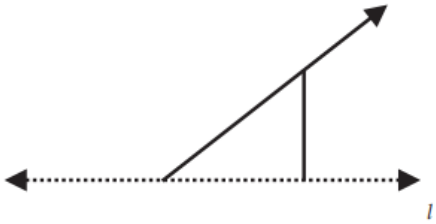
3. **Copy the following drawing on square paper. Complete each one of them in such a way that the resulting figure has two dotted lines as two lines of symmetry.**

a. 

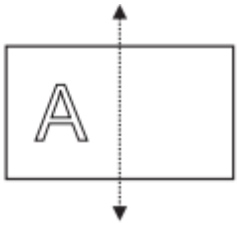
b. 

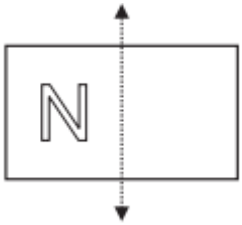
c. 

4. **In the given figure, l is the line of symmetry. Complete the diagram to make it symmetric.**

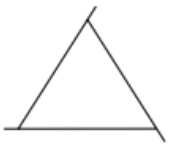


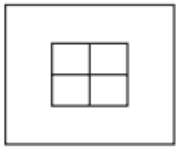
5. **In the given figure, a letter of the alphabet is shown along with a vertical line. Take the mirror image of the letter in the given line. Find which letter look the same after reflection (i.e. which letter looks same in the image) and which do not.**

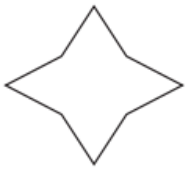
a. 

b. 

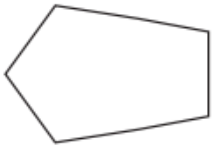
6. **Trace each of the following figures and draw the line of symmetry, if any:**

a. 

b. 

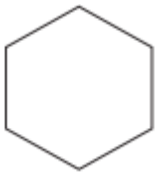
c. 

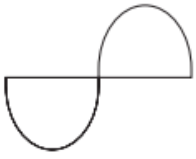
d. 

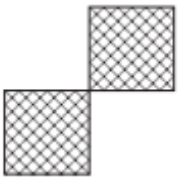
e. 

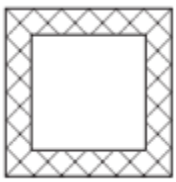
f. 

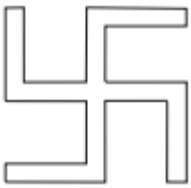
7. **Find the number of lines of symmetry in each of the following shapes**:

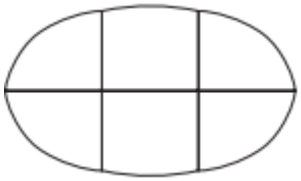
a. 

b. 

c. 

d. 

e. 

f. 

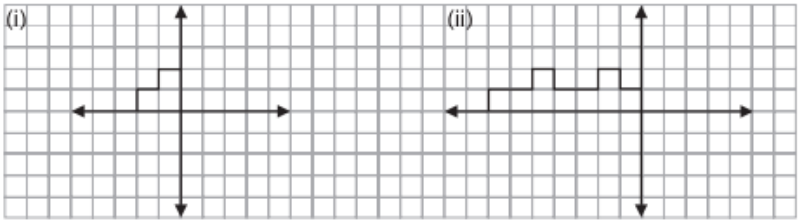
g. 

h. 

8. **Write the vertical, horizontal, both or no line of symmetry for each of the letters given below:**

B E H J K P T

9. **Complete each of the following, such that the resulting figures have the two dotted lines as lines of symmetry.**



10. **Can you draw a triangle which has:**

    a. Exactly one line of symmetry?
    b. Exactly two lines of symmetry?
    c. Exactly three lines of symmetry?
    d. No lines of symmetry?

Sketch a rough figure in each case and give the name of the triangle.

11. **On a squared paper, sketch the following:**

    a. A triangle with a horizontal line of symmetry but no vertical line of symmetry.

    b. A quadrilateral with both horizontal and vertical lines of symmetry.

    c. A quadrilateral with a horizontal line of symmetry but no vertical line of symmetry.

    d. A hexagon with exactly two lines of symmetry.

    e. A hexagon with six lines of symmetry.

12. A kite has _____ line(s) of symmetry.

a. 1 b. 2 c. 3 d. 4

13. A rhombus has _____ line(s) of symmetry.

a. 1 b. 2 c. 3 d. 4

14. A regular pentagon has _____ line(s) of symmetry.

a. 1 b. 4 c. 5 d. 3

15. Scalene triangle has _____ line(s) of symmetry.

a. one b. two c. zero d. none of these

16. Name the figure which has 3 line(s) of symmetry.

a. equilateral triangle b. scalene triangle

c. circle d. rhombus

17. A circle _____ has many line(s) of symmetry.

a. one b. two c. infinite d. zero

18. A semicircle has _____ line(s) of symmetry.

a. 4 b. 1 c. 3 d. many

19. Which letter has a line of symmetry?

a. F ☐ b. Z ☐ c. N ☐ d. X ☐

20. How many lines of symmetry a parallelogram has?

a. one ☐ b. two ☐ c. zero ☐ d. none of these ☐

21. A square has _____ line(s) of symmetry.

a. 4 b. 2 c. 1 d. zero

22. Which letter has no line of symmetry?

a. A ☐ b. B ☐ c. M ☐ d. P ☐

23. Draw and name the type of triangle which has:

- **a.** no line of symmetry
- **b.** one line of symmetry
- **c.** two lines of symmetry
- **d.** three lines of symmetry

24. Write any four letters of English alphabet, which have:

- **a.** Only horizontal line(s) of symmetry _____
- **b.** Only vertical line(s) of symmetry _____
- **c.** Both horizontal and vertical line(s) of symmetry _____
- **d.** No line of symmetry _____

25. Draw neat diagrams showing the line(s) of symmetry and give the specific name to the quadrilateral having:

- **a.** Only one line of symmetry. How many such quadrilaterals are there?
- **b.** Its diagonals as the only lines of symmetry.
- **c.** Two lines of symmetry other than diagonals.
- **d.** More than two lines of symmetry.

26. Write the letters of word MATHEMATICS which have no line of symmetry.