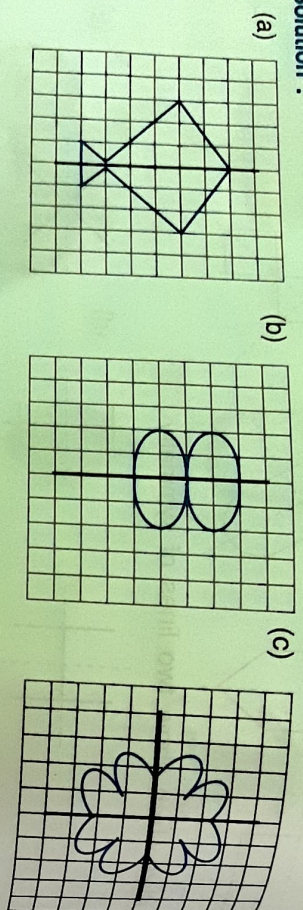
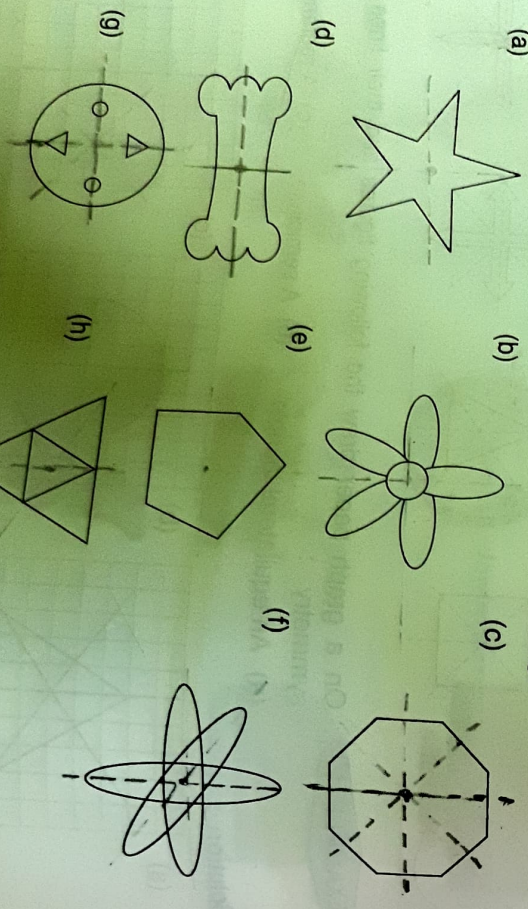


Solution :



EXERCISE 15(D)

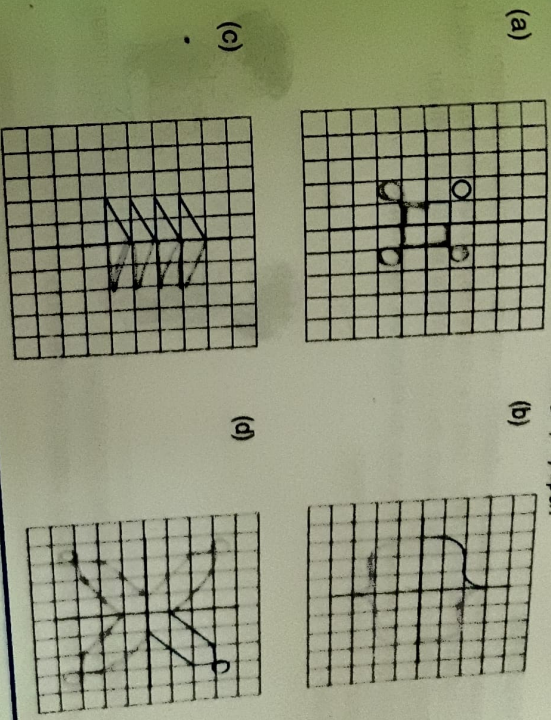
1 Draw all possible lines of symmetry in each of the following.



2 Draw the geometrical figure mentioned below and write the number of lines of symmetry possible for each.

- (a) Rectangle 2 lines
- (b) Equilateral triangle 3 lines
- (c) Scalene triangle 0 lines
- (d) Isosceles triangle 1 line
- (e) Trapezium 0 lines
- (f) Square 4 lines
- (g) Parallelogram 0 lines
- (h) Semicircle 1 line

3 Complete the following figures using graph paper.



Let us now understand the symmetry of triangles.

The line of symmetry in a triangle is a line segment joining a vertex to the mid-point of the side opposite to that vertex. This line segment is called a **median** and it divides one side of the triangle in two equal parts. Let us consider the following triangle.

$\triangle ABC$ is an isosceles triangle.
 $AB = AC$
 AX is a line segment joining the vertex A to the mid-point of the side opposite to $\angle A$ i.e. BC
 Since $BX = XC$, AX is the median of the triangle.

