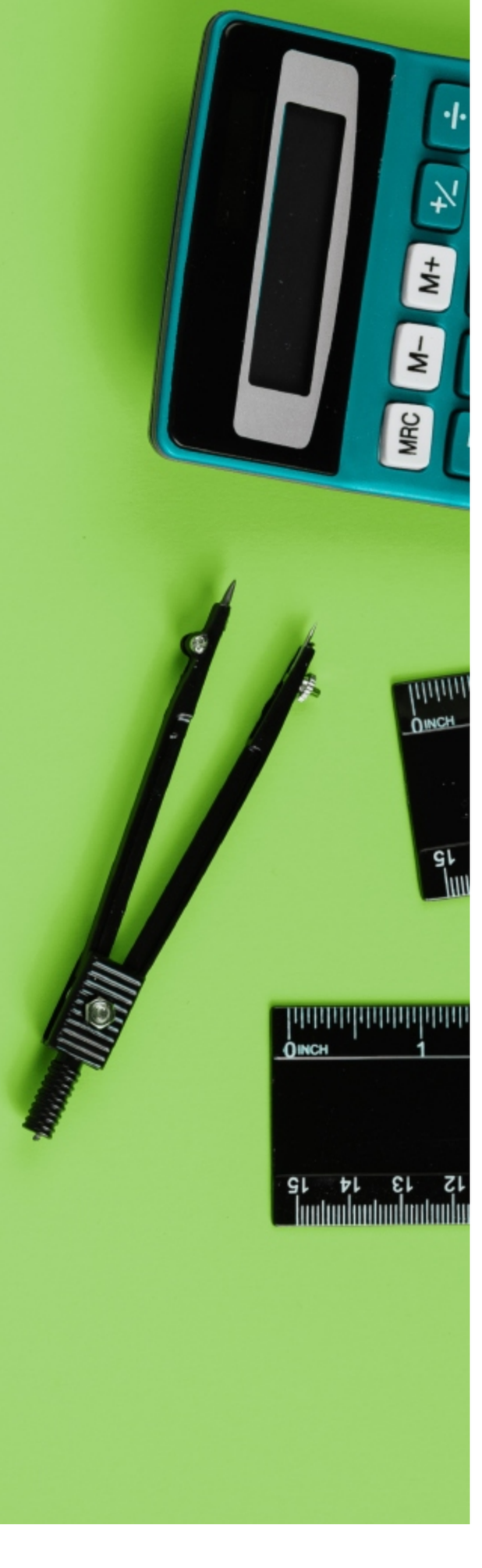
RD Sharma Solutions

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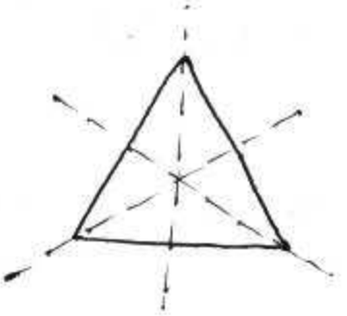
Chapter-18
Symmetry

Exercise 18.1

Q.1 State the number of lines of symmetry for the following figures.

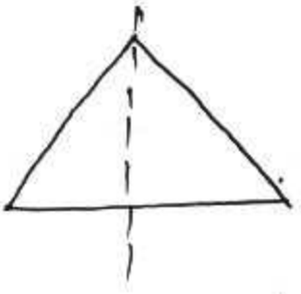
(i) An equilateral triangle
(ii) An isosceles triangle
(iii) A scalene triangle
(iv) A rectangle
(v) A rhombus
(vi) A square
(vii) A parallelogram
(viii) A quadrilateral
(ix) A regular pentagon
(x) A regular hexagon
(xi) A circle
(xii) A semi-circle.

Solution: (i) An equilateral triangle



3 lines of symmetry

(ii) An isosceles triangle



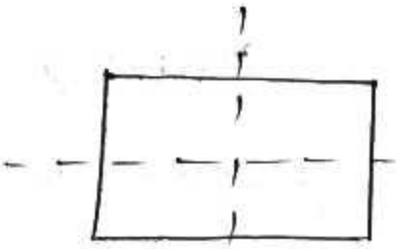
one line of symmetry

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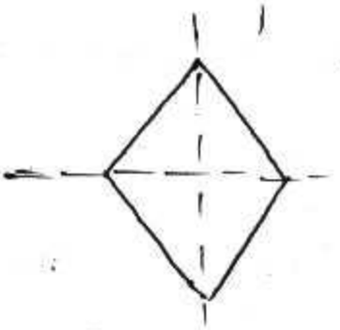
(iii) A Scalene triangle – zero lines of symmetry

(iv) A rectangle :



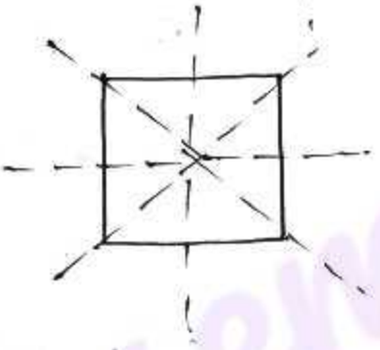
(2 lines of symmetry)

(v) A rhombus



(2 lines of symmetry)

(vi) A square :

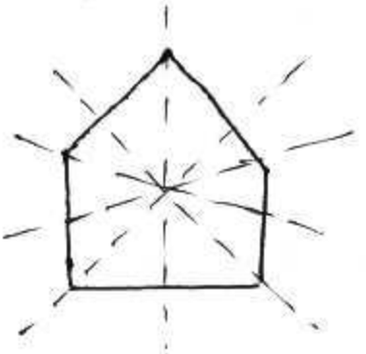


(4 lines of symmetry)

(vii) A parallelogram : zero lines of symmetry

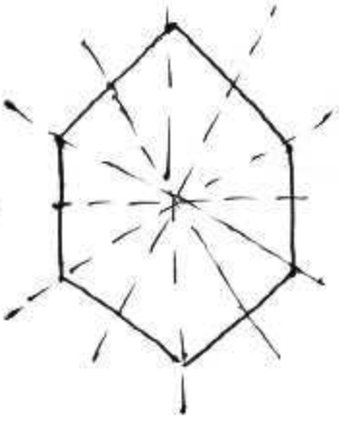
(viii) A quadrilateral : zero lines of symmetry

(ix) A regular pentagon :



(5 lines)

(x) A regular hexagon :



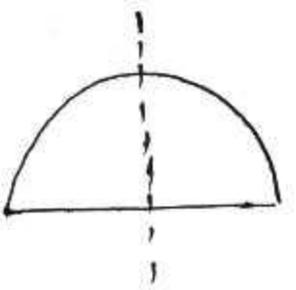
(6 lines)

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(xi) A circle : Infinite lines of symmetry.

(xii) A semicircle!



(One line of symmetry)

Q.2 What ~~are~~ other name can you give to the line of symmetry of

(i) An isosceles triangle (ii) A circle

Solution: (i) Altitude of triangle.

(ii) Diameters of circle.

Q.3 Identify three examples of shapes with no line of symmetry.

Solution (i) A scalene triangle.

(ii) A parallelogram

(iii) A quadrilateral.

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Q.4 Identify multiple lines of symmetry, if any, in each of the following figures.

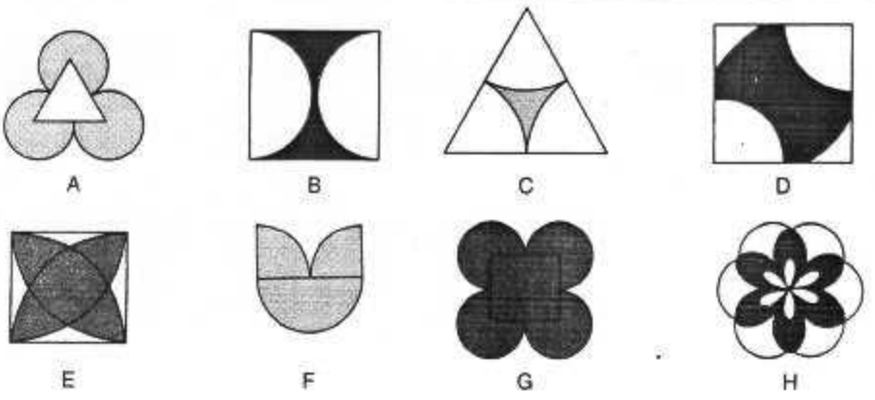
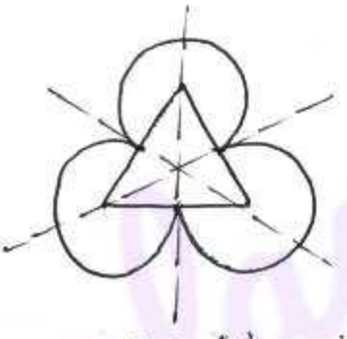


Fig. 27

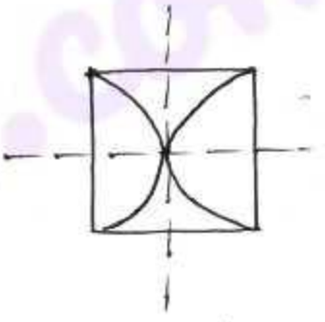
Solution:

(A)



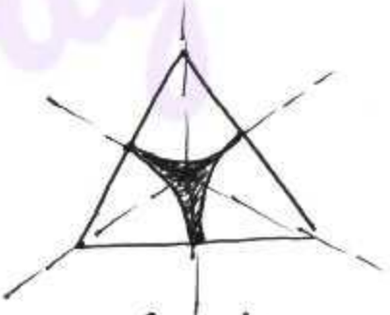
(3 lines)

(B)



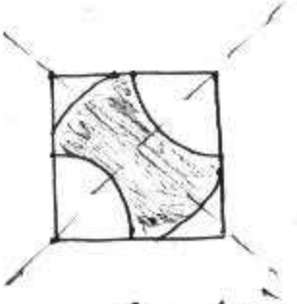
(2 lines)

(C)



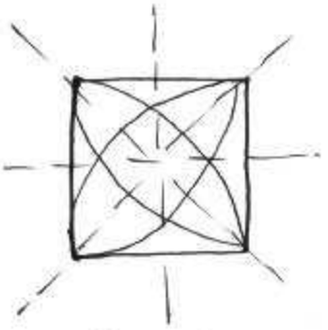
(3 lines)

(d)



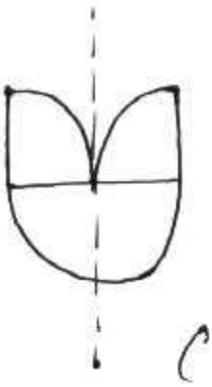
(2 lines)

(e)



(4 lines)

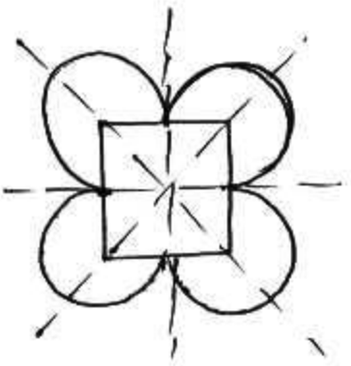
(f)



(1 lines)

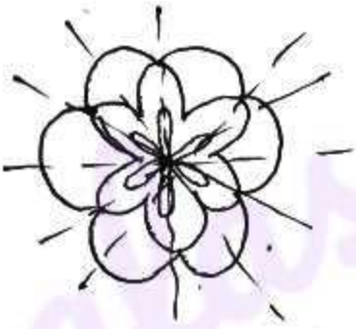
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(d)



(4 lines of Symmetry)

(e)



(6 lines of Symmetry)

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