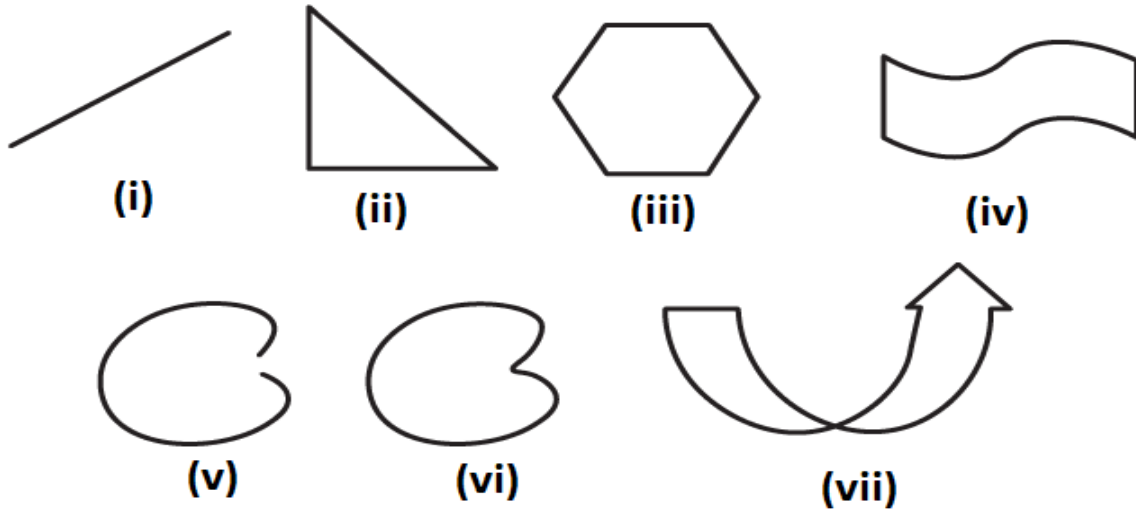


EXERCISE 20.1

PAGE: 20.5

1. Which of the following are closed curves? Which of them are simple?



Solution:

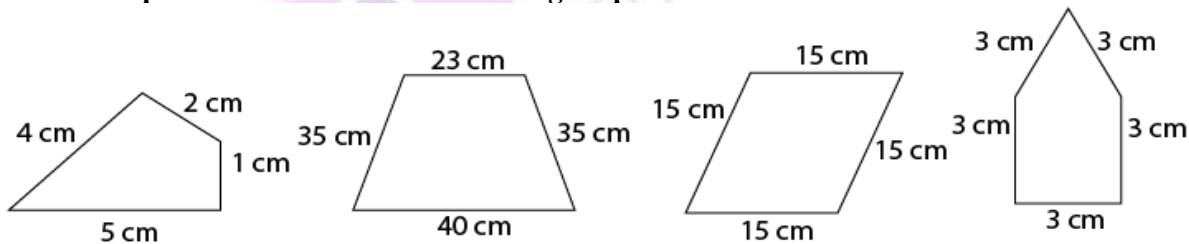
The figures (ii), (iii), (iv), (vi) and (vii) are closed curves and the figures (ii), (iii), (iv) and (vi) are simple closed curves.

2. Define perimeter of a closed figure.

Solution:

The length of the boundary of a closed figure is known as its perimeter.

3. Find the perimeter of each of the following shapes:



Solution:

We know that perimeter is the sum of lengths of all the sides of a closed figure.

- (i) Perimeter of the given figure = $4 + 2 + 1 + 5 = 12$ cm
- (ii) Perimeter of the given figure = $23 + 35 + 40 + 35 = 133$ cm
- (iii) Perimeter of the given figure = $15 + 15 + 15 + 15 = 60$ cm
- (iv) Perimeter of the given figure = $3 + 3 + 3 + 3 + 3 = 15$ cm