

Mathematics

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(Chapter – 6) (Triangles)

(Class – X)

Exercise 6.1

Question 1:

Fill in the blanks using correct word given in the brackets: –

- (i) All circles are _____. (congruent, similar)
- (ii) All squares are _____. (similar, congruent)
- (iii) All _____ triangles are similar. (isosceles, equilateral)
- (iv) Two polygons of the same number of sides are similar, if (a) their corresponding angles are _____ and (b) their corresponding sides are _____. (equal, proportional)

Answer 1:

- (i) Similar
- (ii) Similar
- (iii) Equilateral
- (iv) (a) Equal
(b) Proportional

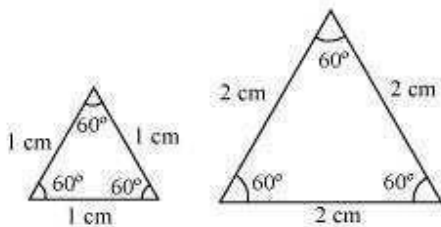
Question 2:

Give two different examples of pair of

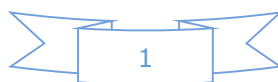
- (i) Similar figures (ii) Non-similar figures

Answer 2:

- (i) Two equilateral triangles with sides 1 cm and 2 cm



Two squares with sides 1 cm and 2 cm

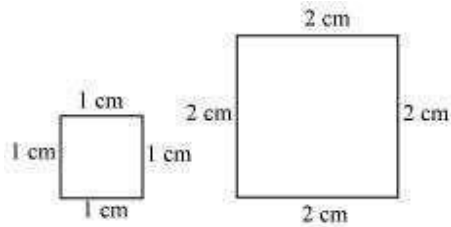


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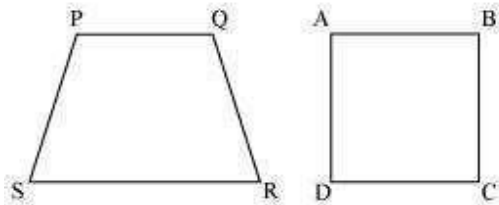
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(Chapter – 6) (Triangles)

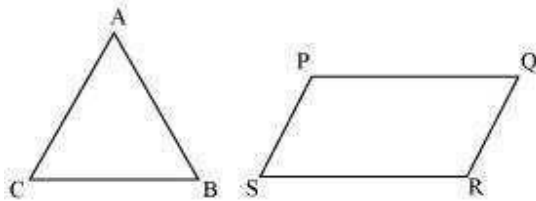
(Class – X)



(ii) Trapezium and square

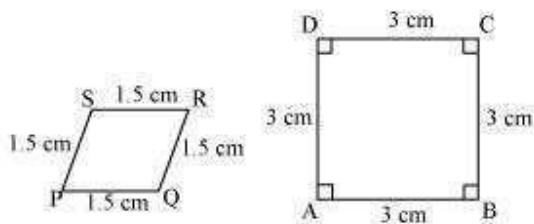


Triangle and parallelogram



Question 3:

State whether the following quadrilaterals are similar or not:



Answer 3:

Quadrilateral PQRS and ABCD are not similar as their corresponding sides are proportional, i.e. 1:2, but their corresponding angles are not equal.