

CHAPTER - 6

Triangles

Exercise - 6.1

1) i) All circles are similar

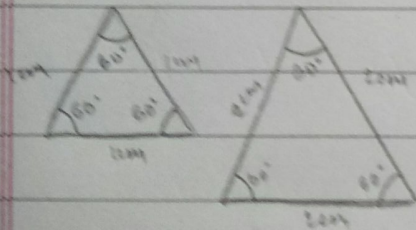
ii) All squares are similar

iii) All equilateral triangles are similar.

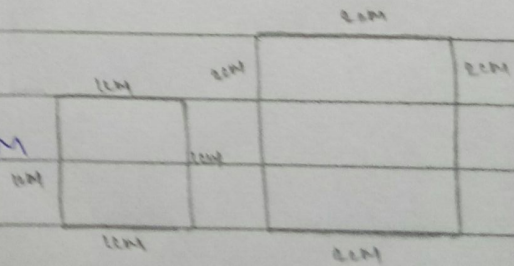
iv) Two polygons of the same number of sides are similar if their corresponding angles are equal and their corresponding sides are proportional

2) i) Similar Figures

Ans. Two equilateral triangles with sides 1cm & 2cm

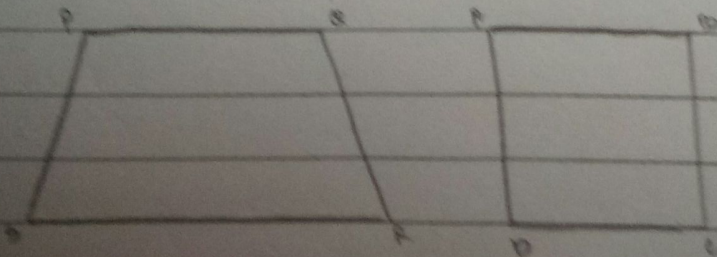


* Two squares with 1cm & 2cm

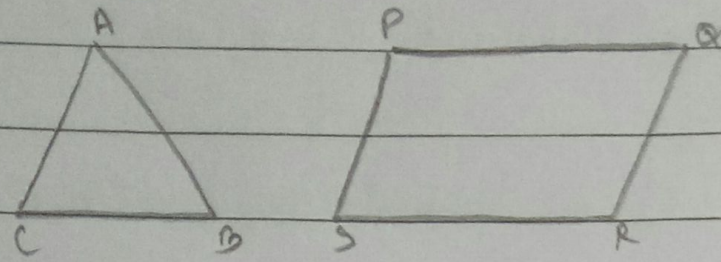


ii) Non similar figure.

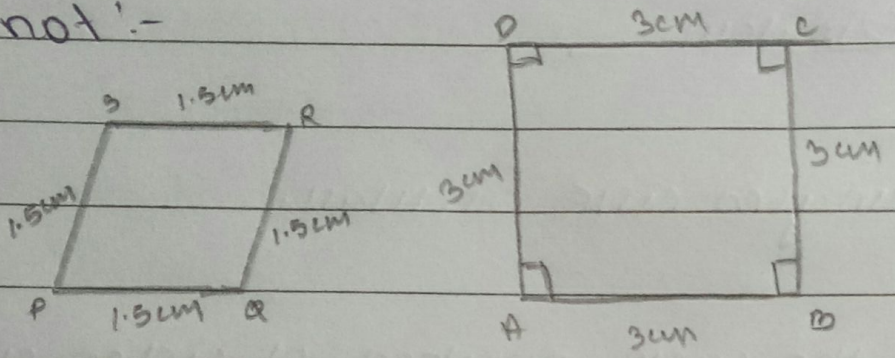
Ans. A Trapezium and square.



* Triangle and parallelogram



3) State whether the following quadrilaterals are similar or not :-



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