



NCERT Solutions For Class 10 Chapter 6 Triangles Exercise 6.1

**1. Fill in the blanks using the correct word given in 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)

**Ans. (i)** similar

**(ii)** similar

**(iii)** equilateral

**(iv)** equal, proportional

**2. Give two different examples of pair of:**

(i) similar figures

(ii) non-similar figures

**Ans. (i)** Two different examples of pair of similar figures are:

**(a)** Any two rectangles

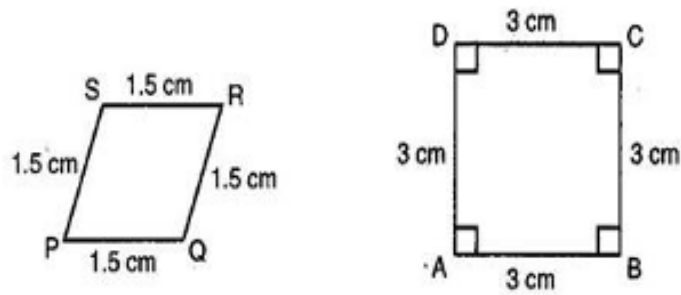
**(b)** Any two squares

**(ii)** Two different examples of pair of non-similar figures are:

**(a)** A scalene and an equilateral triangle

**(b)** An equilateral triangle and a right angled triangle

3. State whether the following quadrilaterals are similar or not:



**Ans.** On looking at the given figures of the quadrilaterals, we can say that they are not similar because their angles are not equal.

\*\*\*\*\* END \*\*\*\*\*