

Exercise 4.1

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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, equilaterals).
- (iv) Two triangles are similar, if their corresponding angles are _____ (proportional, equal)
- (v) Two triangles are similar, if their corresponding sides are _____ (proportional, equal)
- (vi) Two polygons of the same number of sides are similar, if (a) _____ their corresponding angles are and their corresponding sides are (b) _____ (equal, proportional).

Solutions:

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

