

Chapter 12. Demonstrative Geometry

1) The sum of the lengths of any two sides of a triangle must be _____ than the third side.

- A) less
- B) greater
- C) equal
- D) none of these

Answer: B

2) The segment connecting the mid-points of two sides of a triangle is _____ to the third side and is half as long.

- A) perpendicular
- B) parallel
- C) coincident
- D) all of them

Answer: B

3) In a triangle, the longest side is always opposite to the _____ angle.

- A) smallest
- B) largest
- C) both A and B
- D) none of these

Answer: B

4) If three sides of one triangle are congruent to three sides of another triangle, the triangles are _____.

- A) similar
- B) proportional
- C) congruent
- D) none of these

Answer: C

5) If three angles of one triangle are congruent to three angles of another triangle, the triangles are _____.

- A) congruent
- B) equal
- C) similar
- D) proportional

Answer: C

6) If two angles and the included side of one triangle are congruent to the corresponding parts of another triangle, the triangles are _____.

- A) similar
- B) equal
- C) proportional
- D) congruent

Answer: D

7) If two angles and the non-included side of one triangle are congruent to the corresponding parts of another triangle, the triangles are _____.

- A) similar
- B) equal
- C) congruent
- D) none of these

Answer: C

8) If the three sets of corresponding sides of two triangles are in proportion, the triangles are _____.

- A) similar
- B) congruent
- C) proportional
- D) equal

Answer: A

9) If two _____ lines are cut by a transversal, then the pairs of corresponding angles are congruent.

- A) intersecting
- B) parallel
- C) perpendicular
- D) coincident

Answer: B

10) The sum of all the three interior angles of a triangle is _____.

- A) 360°
- B) 180°
- C) 90°
- D) 45°

Answer: B

11) If two sides of a triangle are congruent then the angles opposite to them are _____.

- A) not congruent
- A) equal
- B) congruent
- C) all of these

Answer: C