Chapter - 6

Triangles

- 1. Which of the following statements is true about the medians of a triangle?
- A. The medians of a triangle are always equal in length.
- B. The medians of a triangle are always perpendicular to each other.
- C. The medians of a triangle always intersect at the circumcenter of the triangle.
- D. The medians of a triangle always intersect at the centroid of the triangle.

Answer: D. The medians of a triangle always intersect at the centroid of the triangle.

- 2. In a triangle ABC, if AB = AC, then the angle opposite to BC is:
- A. 30 degrees
- B. 45 degrees
- C. 60 degrees
- D. 90 degrees

Answer: C. 60 degrees

- 3. In a triangle ABC, if angle A = 60 degrees and angle B = 50 degrees, then angle C is:
- A. 70 degrees
- B. 80 degrees
- C. 90 degrees
- D. 100 degrees

Answer: D. 100 degrees

4. In a triangle ABC, if angle A = 90 degrees and AB = AC, then angle B is:

A. 45 degrees
B. 60 degrees
C. 75 degrees
D. 90 degrees
Answer: A. 45 degrees
5. In a triangle ABC, if angle A = 60 degrees and angle C = 40 degrees, then angle B is:
A. 80 degrees
B. 70 degrees
C. 50 degrees
D. 30 degrees
Answer: B. 70 degrees
6. In a triangle ABC, if angle A = 90 degrees and angle B = 60 degrees, then angle C is:
A. 30 degrees
B. 60 degrees
C. 90 degrees
D. 120 degrees
Answer: D. 120 degrees
7. In a triangle ABC, if AB = AC and angle B = 50 degrees, then angle C is:
A. 40 degrees
B. 50 degrees
C. 80 degrees
D. 100 degrees

Answer: C. 80 degrees
8. In a triangle ABC, if angle A = 60 degrees and angle B = 80 degrees, then angle C is:
A. 40 degrees
B. 50 degrees
C. 70 degrees
D. 90 degrees
Answer: C. 40 degrees
9. In a triangle ABC, if angle A = 90 degrees and angle B = 30 degrees, then angle C is:
A. 30 degrees
B. 45 degrees
C. 60 degrees
D. 90 degrees
Answer: C. 60 degrees
10. In a triangle ABC, if angle A = 90 degrees and angle C = 60 degrees, then angle B is:
A. 30 degrees
B. 45 degrees
C. 60 degrees
D. 90 degrees
Answer: A. 30 degrees
11. In a triangle ABC, if AB = AC and angle B = 80 degrees, then angle C is:
A. 40 degrees

B. 50 degrees

C. 70 degrees

D. 90 degrees
Answer: C. 70 degrees
12. In a triangle ABC, if angle A = 60 degrees and angle B = 70 degrees, then angle C is:
A. 50 degrees
B. 60 degrees
C. 70 degrees
D. 80 degrees
Answer: D. 50 degrees
13. In a triangle ABC, if angle A = 90 degrees and BC = 5 cm, then the length of the altitude from A to BC is:
A. 5 cm
B. 10 cm
C. 15 cm
D. 25 cm
Answer: A. 5 cm
14. In a triangle ABC, if angle A = 90 degrees and AB = 8 cm, then the length of the altitude from A to BC is:
A. 4 cm
B. 6 cm
C. 8 cm
D. 10 cm
Answer: B. 6 cm

15. In a triangle ABC, if angle A = 90 degrees and AB = 6 cm, then the length of the altitude from A to BC is:
A. 3 cm
B. 4 cm
C. 5 cm
D. 6 cm
Answer: C. 5 cm
16. In a triangle ABC, if angle A = 90 degrees and BC = 12 cm, then the length of the altitude from A to BC is:
A. 6 cm
B. 8 cm
C. 10 cm
D. 12 cm
Answer: A.6 cm
17. In a triangle ABC, if angle A = 60 degrees and angle B = 60 degrees, then angle C is:
A. 30 degrees
B. 60 degrees
C. 90 degrees
D. 120 degrees
Answer: B. 60 degrees
18. In a triangle ABC, if angle A = 40 degrees and angle B = 60 degrees, then angle C is:
A. 40 degrees
B. 80 degrees
C. 100 degrees

D. 120 degrees

Answer: C. 80 degrees

19. In a triangle ABC, if angle A = 70 degrees and angle B = 50 degrees, then angle C is:

A. 60 degrees

B. 70 degrees

C. 80 degrees

D. 90 degrees

Answer: B. 60 degrees

20. In a triangle ABC, if angle A = 50 degrees and angle B = 60 degrees, then angle C is:

A. 40 degrees

B. 70 degrees

C. 80 degrees

D. 90 degrees

Answer: A. 70 degrees

21. In a triangle ABC, if angle A = 40 degrees and angle B = 80 degrees, then angle C is:

A. 60 degrees

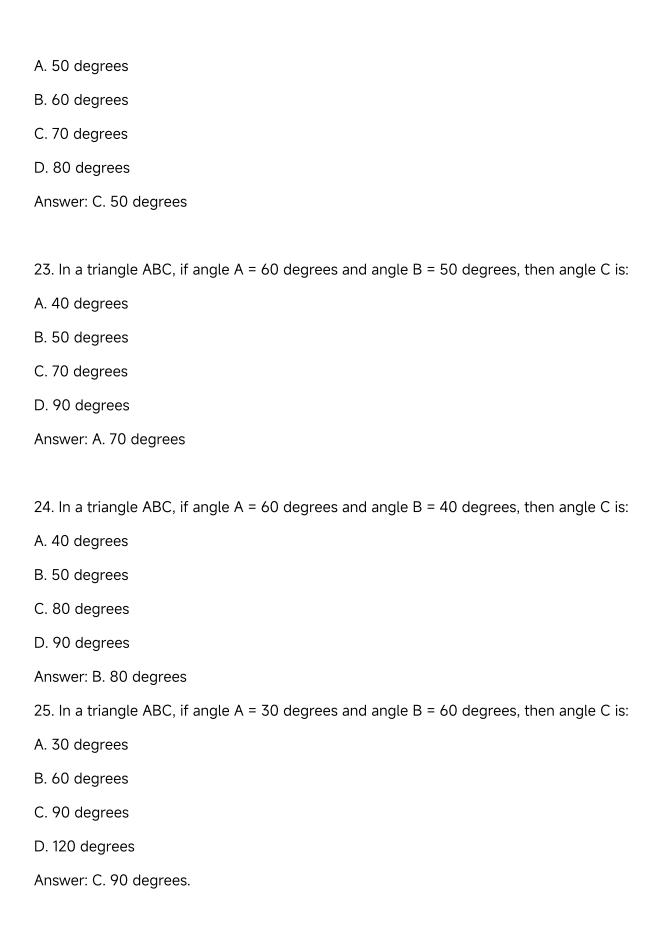
B. 70 degrees

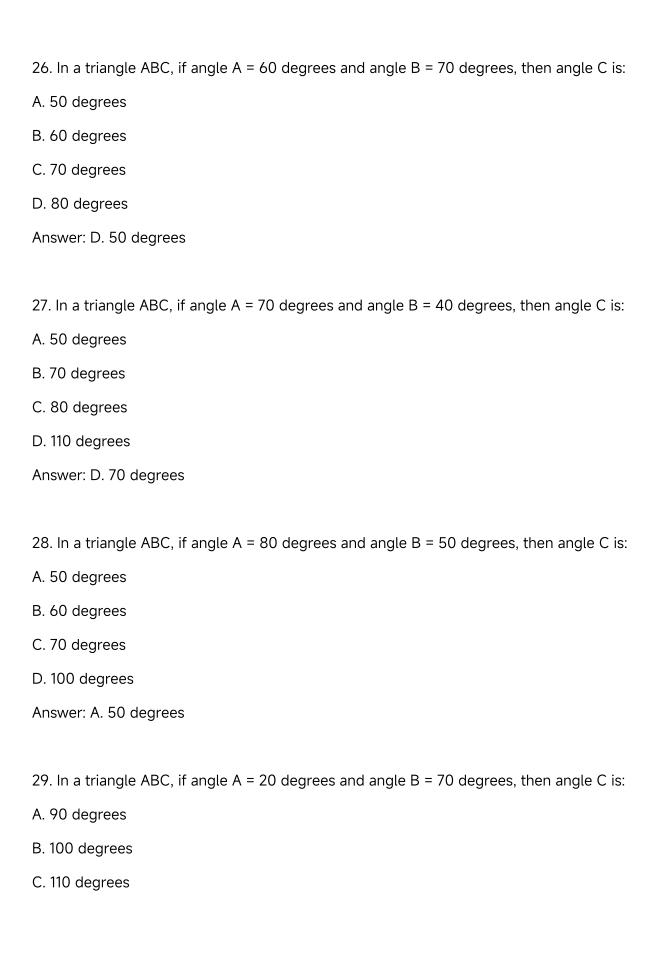
C. 80 degrees

D. 90 degrees

Answer: A. 60 degrees

22. In a triangle ABC, if angle A = 50 degrees and angle B = 80 degrees, then angle C is:





D. 120 degrees

Answer: C. 90 degrees

30. In a triangle ABC, if angle A = 30 degrees and angle B = 40 degrees, then angle C is:

A. 50 degrees

B. 60 degrees

C. 70 degrees

D. 80 degrees

Answer: D. 110 degrees

31. In a triangle ABC, if angle A = 50 degrees and angle B = 40 degrees, then angle C is:

A. 50 degrees

B. 70 degrees

C. 80 degrees

D. 90 degrees

Answer: C. 90 degrees

32. In a triangle ABC, if angle A = 60 degrees and angle B = 50 degrees, then angle C is:

A. 30 degrees

B. 70 degrees

C. 80 degrees

D. 90 degrees

Answer: B. 70 degrees

33. In a triangle ABC, if angle A = 70 degrees and angle B = 60 degrees, then angle C is:

Α.	50	degrees

B. 70 degrees

C. 80 degrees

D. 110 degrees

Answer: A. 50 degrees

34. In a triangle ABC, if angle A = 50 degrees and angle B = 60 degrees, then angle C is:

A. 30 degrees

B. 70 degrees

C. 80 degrees

D. 100 degrees

Answer: C. 70 degrees

35. In a triangle ABC, if angle A = 40 degrees and angle B = 80 degrees, then angle C is:

A. 60 degrees

B. 70 degrees

C. 80 degrees

D. 100 degrees

Answer: A. 60 degrees

36. In a triangle ABC, if angle A = 20 degrees and angle B = 20 degrees, then angle C is:

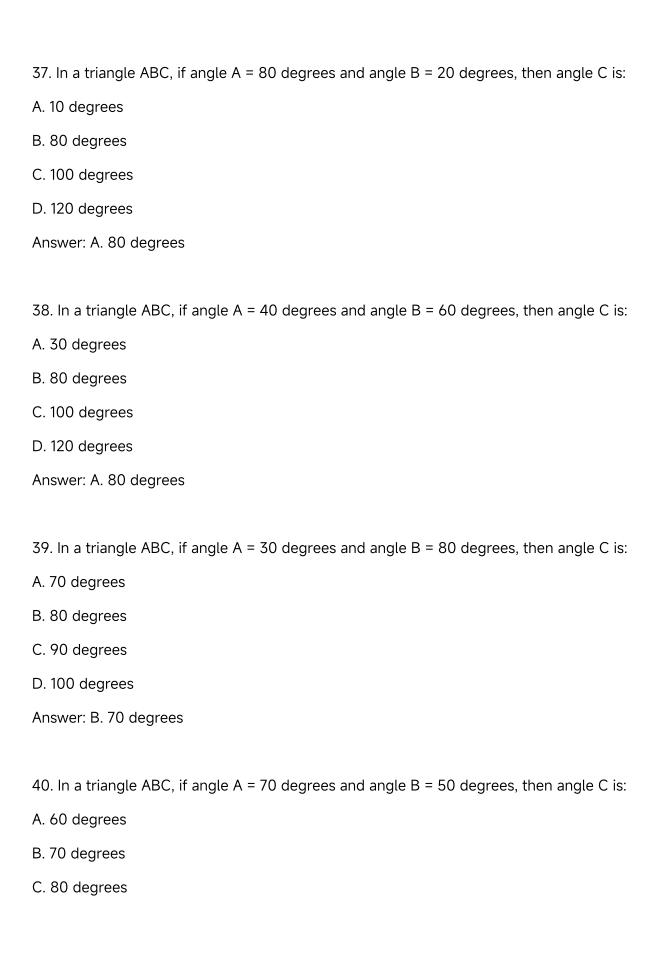
A. 20 degrees

B. 40 degrees

C. 120 degrees

D. 140 degrees

Answer: D. 140 degrees



D. 100 degrees

Answer: C. 60 degrees

41. In a triangle ABC, if angle A = 60 degrees and angle B = 80 degrees, then angle C is:

A. 40 degrees

B. 50 degrees

C. 60 degrees

D. 80 degrees

Answer: A. 40 degrees

42. In a triangle ABC, if angle A = 50 degrees and angle B = 70 degrees, then angle C is:

A. 60 degrees

B. 70 degrees

C. 80 degrees

D. 100 degrees

Answer: C. 60 degrees

43. In a triangle ABC, if angle A = 40 degrees and angle B = 50 degrees, then angle C is:

A. 60 degrees

B. 70 degrees

C. 80 degrees

D. 90 degrees

Answer: C. 90 degrees

44. In a triangle ABC, if angle A = 60 degrees and angle B = 50 degrees, then angle C is:

A. 70 degrees

B. 80 degrees

C.	90	degrees

D. 100 degrees

Answer: B. 70 degrees

45. In a triangle ABC, if angle A = 50 degrees and angle B = 40 degrees, then angle C is:

A. 60 degrees

B. 70 degrees

C. 80 degrees

D. 90 degrees

Answer: D. 90 degrees

46. In a triangle ABC, if angle A = 60 degrees and angle B = 70 degrees, then angle C is:

A. 50 degrees

B. 60 degrees

C. 70 degrees

D. 80 degrees

Answer: A. 50 degrees

47. In a triangle ABC, if angle A = 70 degrees and angle B = 60 degrees, then angle C is:

A. 50 degrees

B. 60 degrees

C. 70 degrees

D. 80 degrees

Answer: A. 50 degrees

