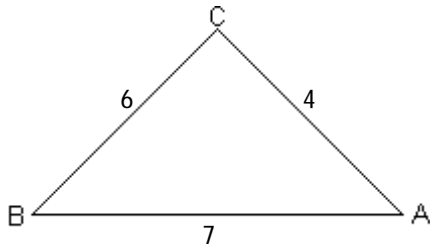


Solve the triangle. Round lengths to the nearest tenth and angle measures to the nearest degree.

1)

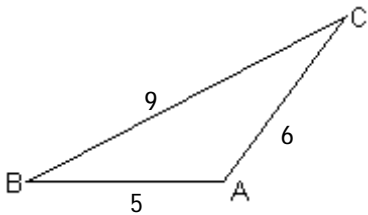


- A) $A = 59^\circ, B = 86^\circ, C = 35^\circ$
C) $A = 59^\circ, B = 35^\circ, C = 86^\circ$

- B) $A = 35^\circ, B = 86^\circ, C = 59^\circ$
D) $A = 35^\circ, B = 59^\circ, C = 86^\circ$

1) _____

2)



- A) $A = 39^\circ, B = 109^\circ, C = 32^\circ$
C) $A = 39^\circ, B = 32^\circ, C = 109^\circ$

- B) $A = 109^\circ, B = 32^\circ, C = 39^\circ$
D) $A = 109^\circ, B = 39^\circ, C = 32^\circ$

2) _____

3) $a = 8, b = 11, C = 123^\circ$

- A) $c = 16.8, A = 24^\circ, B = 33^\circ$
C) $c = 19.7, A = 26^\circ, B = 31^\circ$

- B) $c = 22.6, A = 22^\circ, B = 35^\circ$
D) no triangle

3) _____

Solve the problem.

4) A plane flying a straight course observes a mountain at a bearing of 31.7° to the right of its course. At that time the plane is 8 kilometers from the mountain. A short time later, the bearing to the mountain becomes 41.7° . How far is the plane from the mountain when the second bearing is taken (to the nearest tenth of a km)?

- A) 4.2 kilometers B) 10.1 kilometers C) 6.3 kilometers D) 11.4 kilometers

4) _____

5) Two airplanes leave an airport at the same time, one going northwest (bearing 135°) at 422 mph and the other going east at 347 mph. How far apart are the planes after 2 hours (to the nearest mile)?

- A) 711 miles B) 1268 miles C) 1184 miles D) 1422 miles

5) _____

6) Two points A and B are on opposite sides of a building. A surveyor selects a third point C to place a transit. Point C is 54 feet from point A and 72 feet from point B. The angle ACB is 60° . How far apart are points A and B?

- A) 64.9 feet B) 78.5 feet C) 100.2 feet D) 109.5 feet

6) _____

Answer Key

Testname: PRACTICE14

- 1) C
- 2) D
- 3) A
- 4) C
- 5) D
- 6) A