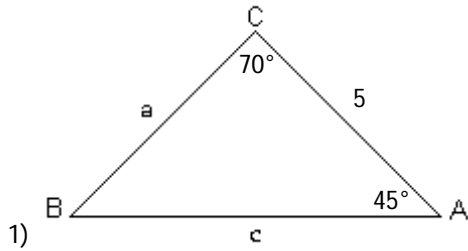


Solve the triangle.

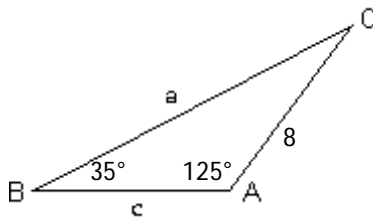


- A)  $B = 70^\circ, a = 3.9, c = 5.18$   
C)  $B = 60^\circ, a = 5.18, c = 3.9$

- B)  $B = 65^\circ, a = 5.18, c = 3.9$   
D)  $B = 65^\circ, a = 3.9, c = 5.18$

1) \_\_\_\_\_

2)



- A)  $C = 20^\circ, a = 11.43, c = 4.77$   
C)  $C = 25^\circ, a = 11.43, c = 4.77$

- B)  $C = 15^\circ, a = 4.77, c = 11.43$   
D)  $C = 20^\circ, a = 4.77, c = 11.43$

2) \_\_\_\_\_

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

- 3)  $B = 41^\circ, C = 111^\circ, b = 35$

Two sides and an angle (SSA) of a triangle are given. Determine whether the given measurements produce one triangle, two triangles, or no triangle at all. Solve each triangle that results.

- 4)  $A = 30^\circ, a = 11, b = 22$

A)  $B = 90^\circ, C = 60^\circ, c = 19.1$

B)  $B = 60^\circ, C = 60^\circ, c = 19.1$

C) no triangle

4) \_\_\_\_\_

- 5)  $A = 85^\circ, a = 4, b = 5$

A)  $B = 44^\circ, C = 51^\circ, c = 13$

B) no triangle

C)  $A = 43^\circ, C = 52^\circ, c = 9$

5) \_\_\_\_\_

- 6)  $C = 35^\circ, a = 18.7, c = 16.1$

A)  $A = 42^\circ, B = 103^\circ, b = 27.4$

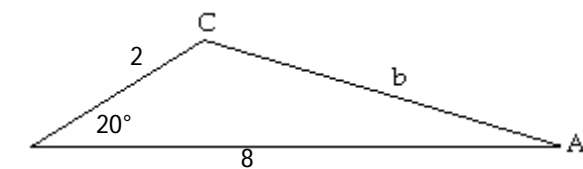
B)  $A_1 = 42^\circ, B_1 = 103^\circ, b_1 = 27.4;$

$A_2 = 138^\circ, B_2 = 7^\circ, b_2 = 3.4$

6) \_\_\_\_\_

Find the area of the triangle. If necessary, round the answer to two decimal places.

7)



A) 2.74

B) 7.52

C) 10.94

D) 5.47

7) \_\_\_\_\_

Find the area of the triangle having the given measurements. Round to the nearest square unit.

- 8)  $A = 27^\circ, b = 14$  inches,  $c = 5$  inches

Answer Key

Testname: PRACTICE13

- 1) D
- 2) A
- 3)  $A = 28^\circ$ ,  $a = 25$ ,  $c = 49.8$
- 4) A
- 5) B
- 6) B
- 7) A
- 8) 16 square inches