Law of Sines and Cosines Practice

Question 1

< C = 105°, < B = 40°, c = 20
Type of triangle?_____ law to use?_____

Question 2

< A = 58°, a = 4.5, b = 12.8
Type of triangle?_____ law to use?_____

Question 3

a = 8, b = 3, c = 9
Type of triangle?_____ law to use?_____

Question 4

< A = 58°, a = 11.5, b = 12.8
Type of triangle?_____ law to use?_____

Question 5

< C = 105°, a = 10, b = 4.5
Type of triangle?_____ law to use?_____

Question 6

Find the area of the triangle if a = 8.3, b = 4.6 and the measure of angle C is 103°.

Question 7

Let ABCD be a parallelogram. If AB = 7 and BC = 9 and <B = 38°, find the length of the diagonal of the parallelogram.

Then find the area of the parallelogram.

Question 8

Find the area of the triangle if a = 12, b = 15 and c = 10.

Question 9

Find the area of the triangle if a = 23, c = 8 and the measure of angle B is 32°.

Question 10

< A = 135°, b = 4, c = 9
Find the measure of angle C

Question 11

Find the area of the triangle if a = 12, b = 12 and c = 12.

Question 12

< A = 60°, a = 9, c = 10
Find b.

Question 13

› From a certain distance, the angle of
elevation to the top of a building is 17°. At a
point 50m closer to the building, the angle of
elevation is 31°. Approximate the height of
the building to the nearest hundredth using
the Law of Sines.