PSEUDOCODE OF QUESTION 13

FUNCTION findC (first angle, second angle, length):

Third angle = 180 - (first angle + second angle)

# Calculate the length of side C using the law of sines

Length of C = sin(Third angle) \* length / sin(first angle)

RETURN Third angle, length of C

WHILE True:

TRY:

# Prompt the user for input

GET first angle

GET second angle

GET length

# Validate input

IF first angle >= 0 AND second angle >= 0 AND length >= 0 THEN

# Ensure the sum of angles is less than 180°

IF first angle + second angle < 180 THEN

# Calculate the result using the findC function

result = findC (first angle, second angle, length)

# Display the result to the user

PRINT "The value of your third angle (𝜸) is " + result [0] + " and the length of side C is " + round (result [1], 2)

BREAK

ELSE:

PRINT "Error: The sum of angles exceeds 180°."

ELSE:

PRINT "Error: Make sure the values of your angles and length are greater than or equal to 0."

EXCEPT Value Error:

PRINT "Error: Please enter valid numeric values for angles and length."