

Written Test

Sample (7) Answer

In figure (a), $\angle ABC = 15^\circ$, and a sequence of isosceles triangles can be drawn as shown. What is the largest number of such triangles that can be drawn?

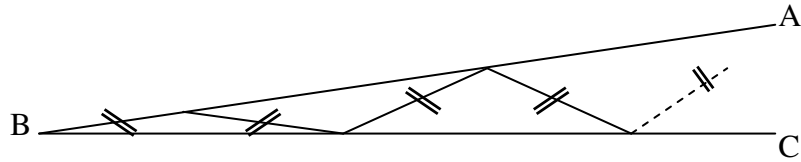


Figure (a)

Answer: The largest number of such triangles is 5.

In figure (b), $\angle PQR = x^\circ$, and a sequence of isosceles triangles is drawn as shown. The largest number of such triangles that can be drawn is 20. Find the greatest integral value of x .

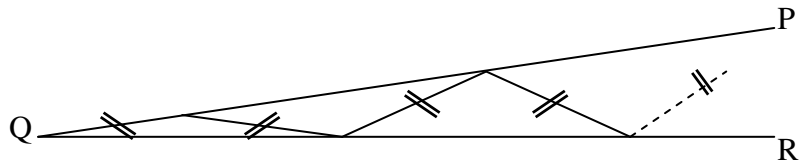


Figure (b)

Answer: The greatest integral value of x is 4.