University of Calgary

CPSC 453:

Introduction to Computer Graphics,

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Assignment #5

For
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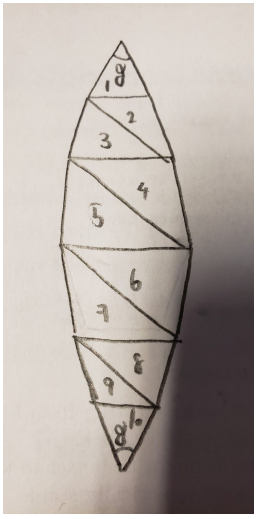
Question 1: Sphere

A.



From the question, we have known that the sphere is formed by evaluating each of the azimuth and altitude parameters at $\theta = 30^{\circ}$ intervals. As the graph is shown above we can see that one piece of interval consists of 10 triangles in total. So that, there are

$$10 * (360^{\circ} / 30^{\circ}) = 120 \textit{ triangles}$$

are presented in the polyhedral approximation.

B.