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*Mathematical Relations In The Formation Of An Icicle*

The purpose of this research is to create a mathematical formula that will provide the volume of an icicle, by using only the distance between the convex and concave points on an icicle and the radii of those points. Photographs of the icicle were taken so that the measurements could be taken easier. These measurements were then plotted on a graph and that graph was then integrated to calculate the volume of the icicle. The calculated volume was found to vary significantly from that of the actual volume.