## Answer on Question #46312 - Math - Geometry

find the volume of a trough at the form of a prism whose opposite face are equilateral triangle with side side x units and are x units apart

## Solution.

The area of an equilateral triangle with side x equals  $S = \frac{\sqrt{3}}{4} x^2$  .

Thus the volume of a trough equals  $V=Sh=rac{\sqrt{3}}{4}x^2*x=rac{\sqrt{3}}{4}x^3$  .