## 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 $S=\frac{\sqrt{3}}{4} \boldsymbol{x}^{2}$.
Thus the volume of a trough equals $V=S h=\frac{\sqrt{3}}{4} x^{2} * x=\frac{\sqrt{3}}{4} x^{3}$.

