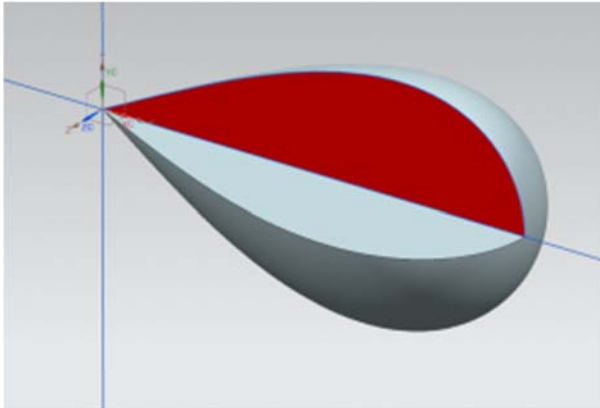


A plumb bob has been designed using the following equation:

$$y = \frac{x}{12} \sqrt{36 - x^2}$$

for X from zero to 6

What is the volume of this item? How much will it weigh if it is made from brass that weighs 8.5 grams per cubic centimeter?



Adapted from:

Thomas, George B., and Ross L. Finney. *Calculus and Analytic Geometry*. Reading, MA: Addison-Wesley, 1992. 336. Print.