We make the volume of a cube and the volume of a sphere equal thus x^3=(4/3)pi*r^3

Now suppose x=1 therefor x^3=1 therefor (4/3)pi*r^3=1 therefore pi*r^=3/4

Now suppose we remove the 4/3 coefficient from the sphere volume law or (4/3)pi*r^3

And give it to the x^3 then pi*r^3=1 and in this case x will be equal to 1.100642416

The follow up looks like this

X=1.100642416 therefor x^3=4/3 therefor (4/3)pi*r^3=4/3 therefor 1=pi*r^3

Now in case x=1 or in case x=1.100642416 the values of r are supposedly equal if pi is the same since we changed the value of x^3 and (4/3)pi*r^3 to be equal in both cases

So solving for r in both cases by the known number of pi nowadays which is equal to 3.141592654 as my casiofx991Es calculator shows I get that r is equal to 0.6203504909 in case 1 and 0.6827840633 in case 2

Now the way to find pi is to make an iterative computer program to make the two values of r equal in both cases or in case 1 and case 2