















<u>http://www.math.ubc.ca/~morey/tal</u> <u>k/proofwowords.html</u> $\int_{0}^{1} \left(t^{\frac{p}{q}} + t^{\frac{q}{p}} \right) dt = 1$

The Salinon (introduced by Archimedes)



Picture by Pbroks13 at en.wikipedia

Proof without words: http://legacy.lclark.edu/~maths ci/salinon.pdf AB is the diameter of a semicircle, centre O.

AD = EB Semicircles with diameter AD

and EB are drawn above AB

A semicircle with diameter DE is drawn below AB.

The salinon is bounded by the 4 semicircles.

The area of the salinon is equal to the area of the circle with diameter CF.

F is the point of intersection of CO produced with the semicircle with diameter DE.

Resources

- Proofs without words by Roger B Nelsen (books)
- <u>http://www.usamts.org/About/U_Gallery.ph</u>
 <u>p</u>
- <u>http://gurmeetsingh.wordpress.com/2008/1</u> 0/24/mathematical-recreations-proofswithout-words/