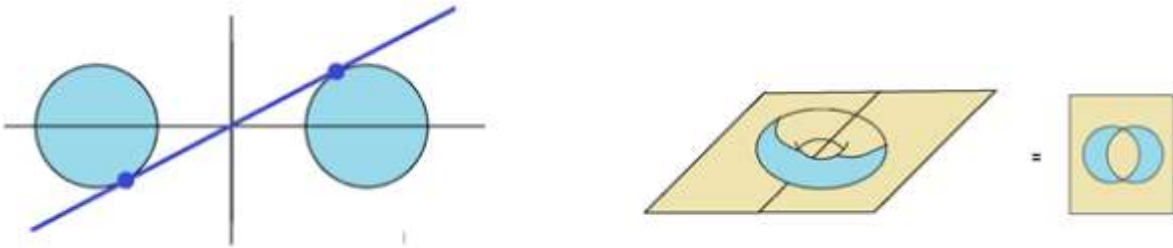


# WITHOUT WORDS

*Mathematical Puzzles to Confound and Delight*



## WW 33: SOLUTION



It is very hard for me to draw, but if you cut a donut with a diagonal planar slice that just touches the ring on each side, then the resulting cross-section outlines two concentric circles. (If you attempt to do this with an actual donut, try to find one that is perfectly symmetrical.)

For a complete mathematical proof that this really does the trick, see my essay:

[www.jamestanton.com/wp-content/uploads/2012/03/Cool-Math-Essay\\_July-2015\\_Donut-Slicing.pdf](http://www.jamestanton.com/wp-content/uploads/2012/03/Cool-Math-Essay_July-2015_Donut-Slicing.pdf)

(Go to [www.jamestanton.com](http://www.jamestanton.com), click on MATHEMATICAL ESSAYS GALORE and scroll down to the July 2015 Cool Math essay.)