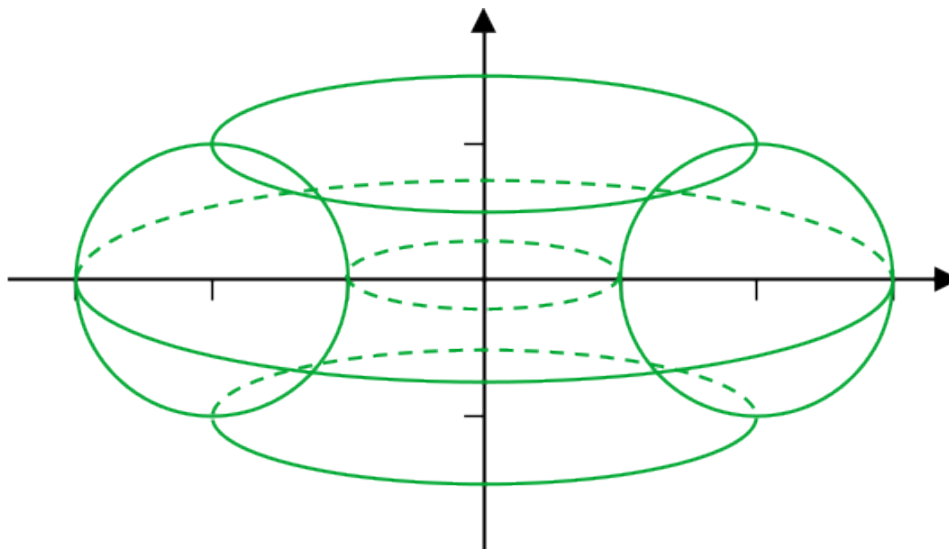


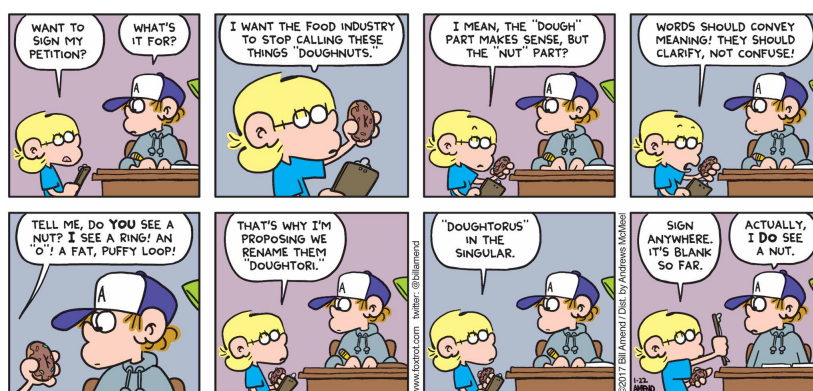
Mathematics 1110H (Section A) – Calculus I: Limits, Derivatives, and Integrals  
TRENT UNIVERSITY, Fall 2024

Assignment #6  
How Much Doughnut?  
Due on Wednesday, 4 December.\*

Consider the torus<sup>†</sup> obtained by revolving the circle  $(x-2)^2 + y^2 = 1$  about the  $y$ -axis.



1. Compute the volume of this torus. [10]



*FoxTrot*, by Bill Amend, published on 22 January, 2017.

\* Please submit your solutions, preferably as a single pdf, via Blackboard's Assignments module. If that fails, please submit them to the instructor on paper or via email to [sbilaniuk@trentu.ca](mailto:sbilaniuk@trentu.ca) as soon as you can.

<sup>†</sup> Basically, mathematician-speak for "doughnut". :-)