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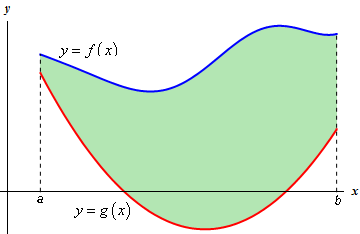
Math 31A Lecture Notes: Area between Curves

when

Example 1: Evaluate

Example 2: Calculate the area under the graph of over

Goal: Compute the area between the graphs of and on the interval .

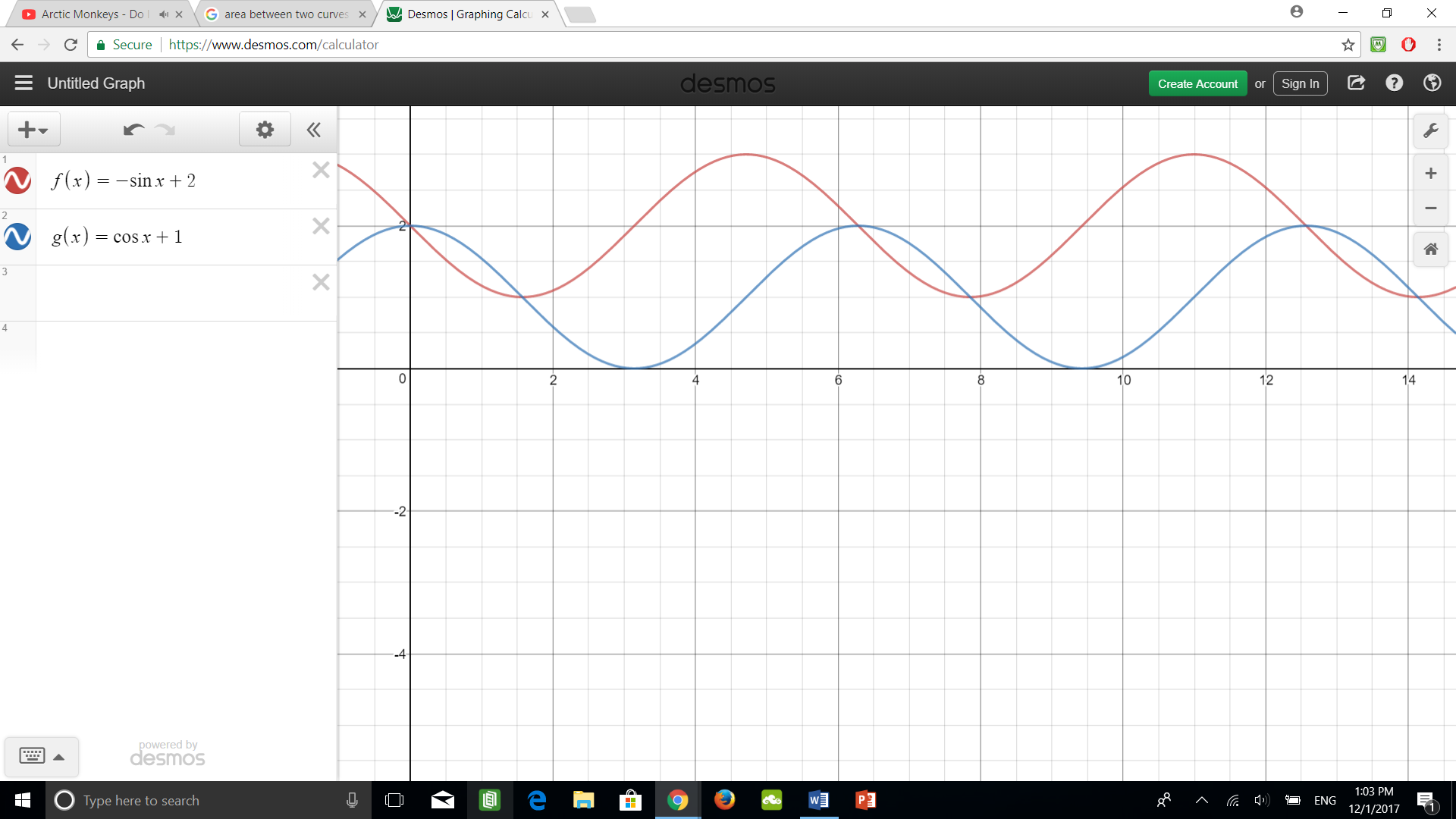
Assume:

A region like this is called vertically simple.

Area between the graphs:

If are arbitrary (region is not vertically simple):

* Subdividing in particular either or
* Compute areas separately
* Add up



Example 3: Find the area of the region between the graphs and in the interval

Area:

Example 4: Compute the area of the region between and over

The graphs intersect at points