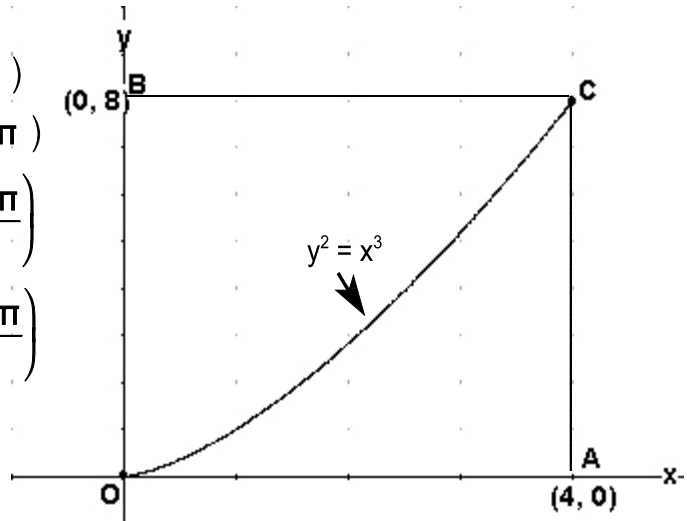


1. Use integration to find the volume of the solid of revolution when the given region is rotated about the given axis.

(use the disc or ring method):

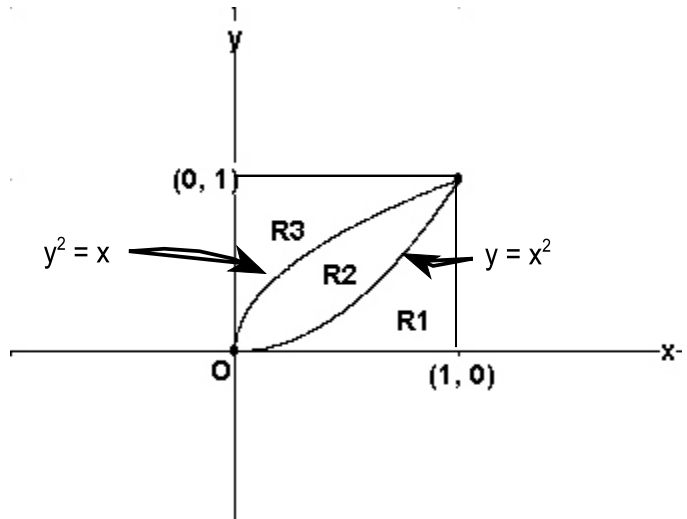
- (a) OAC about the x-axis (64π)
- (b) OBC about the x-axis (192π)
- (c) OBC about the y-axis ($\frac{384\pi}{7}$)
- (d) OAC about the y-axis ($\frac{512\pi}{7}$)



21. Use integration to find the volume of the solid of revolution when the given region is rotated about the given axis.

(use the disc or ring method):

- (a) R1 about the x-axis ($\frac{\pi}{5}$)
- (b) R2 about the x-axis ($\frac{3\pi}{10}$)
- (c) R3 about the x-axis ($\frac{\pi}{2}$)
- (d) R3 about the y-axis ($\frac{\pi}{5}$)
- (e) R2 about the y-axis ($\frac{3\pi}{10}$)
- (f) R1 about the y-axis ($\frac{\pi}{2}$)



Repeat 1 and 2 using the shell method