A) Consider the following region:

\[ y = x(4-x), \quad y = x, \quad (3,3) \]

- Is this region easier to represent by \( f(x) \) \& \( g(x) \) (slicing vertically, integrating vs. \( x \)), or \( F(y) \) \& \( G(y) \) (slicing horizontally)?

i) What is volume when revolved about \( y \)-axis? Use: washer/shell?

[Set up integral - you don't have to evaluate beyond \([\ldots]\) stage!]

ii) What is vol. when revolved about \( x \)-axis? Use: washer/shell?

[setup don't evaluate]

Setup integrals for following volumes (try to choose simplest method):

B) \( y = (y-1)^2, \quad x=1, \quad \) revolved about \( y \)-axis.

C) Same region revolved about \( x \)-axis.

D) \( y = \tan x, \quad y = \sin x, \quad x = \pi/6, \quad \) revolved about \( y \)-axis.

E) \( x+y=1, \quad x + \frac{1}{2}y = 1, \quad x=0, \quad \) revolved about \( y \)-axis.

F) Region from B revolved about line \( x = -2 \).