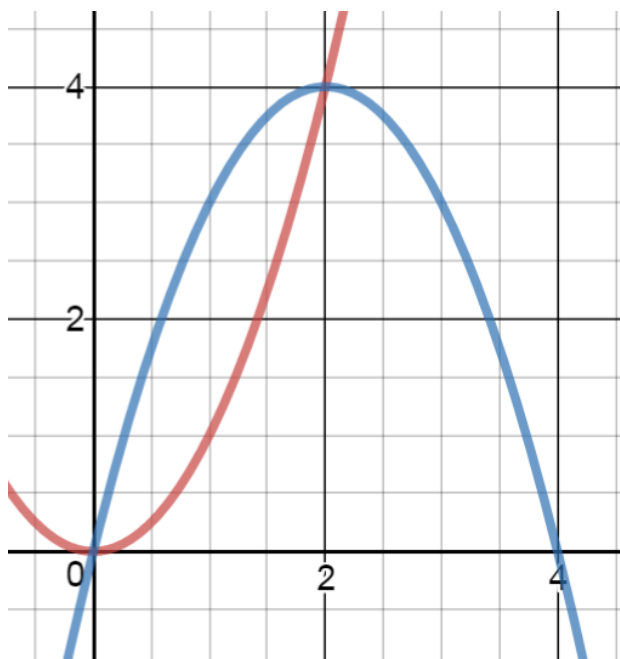# 6.2 Cont. - Last Topic!!

Find the volume of a solid
whose base is bounded by...

$$y = x^2$$

$$y = 4x - x^2$$

With cross sections that are rectangles with a height double that of its base
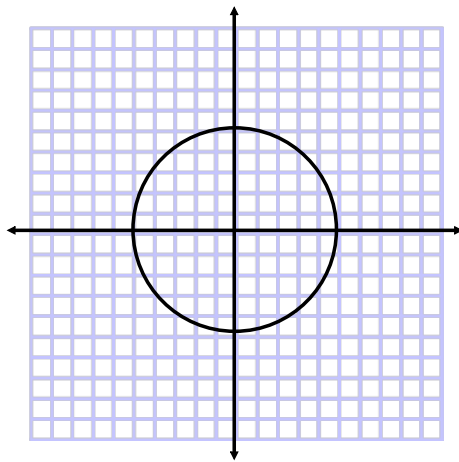(A=B*H ; H=2B)... The cross sections are perpendicular to the x-axis

<u>Volumes of Solids with a given cross section</u>

With volumes of rotation your cross sections are circles

Based on A= πr^2

Let's try the Base of the solid $x^2 + y^2 = 4$
where the cross sections are squares that are perpendicular to the x axis.

Ex: Base bounded by...
f(x)=1-(1/2)x   g(x)= -1+(1/2)x   x=0

cross sections are equilateral triangles, perpendicular to the x axis.