

Math 142

Quiz 6

F2010

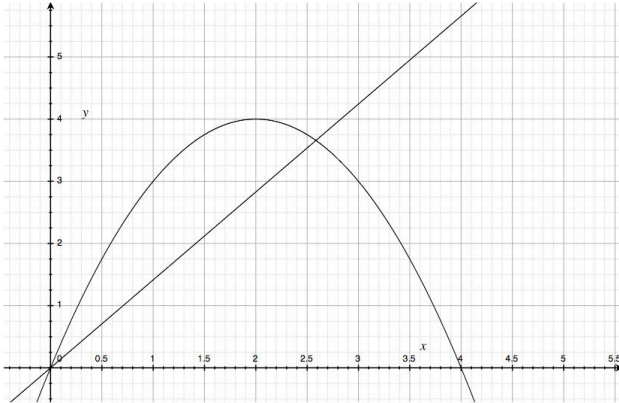
Name

No Work-No Credit

Last 4 Digits

Zero credit given if calculator values are rounded!

For This quiz use the region bounded by  $y = 4x - x^2$ , and  $y = (\sqrt{2})x$ .



a) Revolve the region about the x-axis and find the volume of the solid formed.

b) Revolve the region about the line  $x = -4$  and set up the integral to find the volume of the solid generated. (Set up only)