

5. Use a triple integral to compute the volume of the region (in the first octant) bounded by the graphs of $2x + 4y + z = 8$; $z = 0$; $x = 0$; and $y = 0$

6. Graph the 3-Dimensional surface given by: $y = x^2$

Extra! (10 points - WOW!) Reverse the order of integration and compute the integral:

$$\int_0^1 \int_x^{\sqrt{x}} 2y \, dy dx =$$

Extra! (10 points - WOW!) Reverse the order of integration and compute the integral:

$$\int_0^1 \int_{-x+1}^{1-x^2} 1 \, dydx =$$