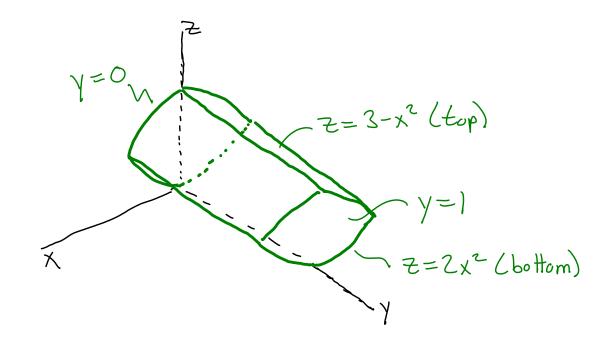
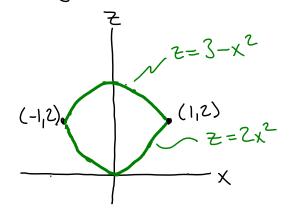
14.5,14.6 #5

Volume is SSS I dV where G is the solid



Projection on xz-plane



Intersection: $3-x^2=2x^2$ $3=3x^2$ x=-1,1

$$\begin{aligned}
SSS &| dV = SSS | dy dz dx \\
&-1 zx^{2} o
\end{aligned}$$

$$= SS dz dx = S(3-3x^{2}) dx = 3x | -x^{3}| = 6-2 = 4$$

$$-1 2x^{2} -1 = 6 - 2 = 4$$

$$SSSIdV = SSSIdzdydx$$

$$-102x^{2}$$

$$= \int_{0}^{1} \int_{1}^{3-x^{2}} dx dy$$