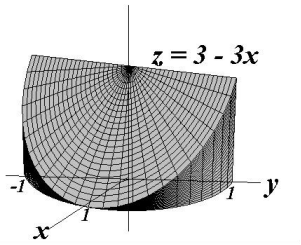
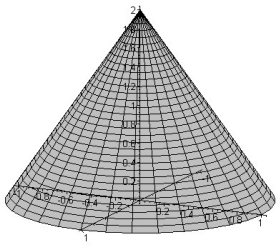
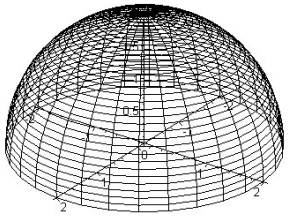
$$\iint_R 3(1-x)\,dA$$



Find the volume of the cone of height h and radius a

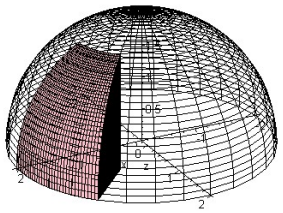


$$z = \sqrt{4 - x^2 - y^2}$$

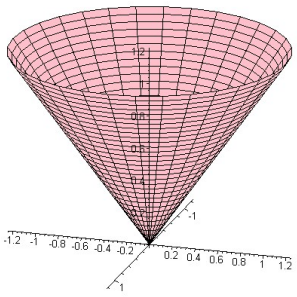


Let R be the section in the xy plane bounded by:
$y = 0 \qquad y = x \qquad y = \sqrt{1 - x^2} \qquad y = \sqrt{4 - x^2}$

$$\iint_R \sqrt{4 - x^2 - y^2}\, dA$$

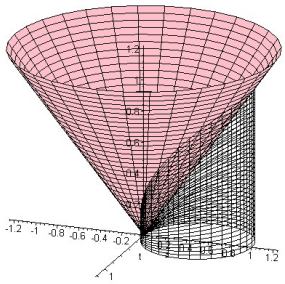


$$z = \sqrt{x^2 + y^2}$$



Let $\mathcal{D}$ be the disk in the xy plane inside of the circle $x^2 + (y-1)^2 = 1$.

$$\iint_{\mathcal{D}} \sqrt{x^2 + y^2}\, dA$$



Let C be the region inside the curve $r = 1 + \cos\theta$

$$\text{Area}(C) = \iint_C 1 \, dA$$