

$$S(x,y,z) = x^2 + y^2$$

$$M_{xy} = \iiint_{M} \sum_{i=1}^{N} (x_{i}y_{i}z_{i}) dx dy dz =$$

$$= \int \left(\int \left(\int \left(\int z \left(x^2 + y^2 \right) dz \right) dy \right) dx =$$

$$= \iint_{X_{2}} \left[\frac{2}{2} \right]_{0}^{\times 1} \left(x^{2} + y^{2} \right) dy dx = \iint_{X_{2}} \left(x^{2} + y^{2} \right) dy dx = \iint_{X$$

$$= \frac{1}{2} \int_{0}^{3} \left[x^{4} + \frac{y^{3}}{3} + x^{2} + \frac{y^{5}}{5} \right]_{0}^{3} dx = \frac{1}{2} \int_{0}^{3} \left(9x^{4} + \frac{3^{5}}{5}x^{2} \right) dx =$$

$$=\frac{1}{2}\left[3^{2}\times\frac{5}{5}+\frac{3^{5}\times3}{5}\right]_{0}^{3}=\frac{1}{2}\left(\frac{3^{7}}{5}+\frac{3^{7}}{5}\right)=\frac{3^{7}}{5}$$

5)
$$0 \le 2 \le 4 - \sqrt{x^{2} + y^{2}}$$
 $2 = 2 + \sqrt{x^{2} + y^{2}}$ $(2 - 4)^{1} = 2 + \sqrt{x^{2} + y^{2}}$ $(2 - 4)^{1} = 2 + \sqrt{x^{2} + y^{2}}$ $(2 - 4)^{2} = 2 + \sqrt{x^$

6.)
$$0 \le 2 \le 1$$
 $0 \le y \le X$
 $0 \le y \le y \le 1$
 $0 \le$

v 53 cos² 9 + v 53 sm² 9 =