Mars Lusson sol

$$\frac{1}{1}$$

$$f(x_{j}y_{j2}) = x^{2}$$

$$Z_{x}=2x=$$

V 2x2+2g1+2g2

 $(2x = x^2, 2y = 1, 2 = 0)$

$$\int_{0}^{2} \int_{0}^{2} x \sqrt{4x^{2}+1} dx dz$$

$$\frac{3}{5} = \frac{3}{5} \left(\frac{2}{3} \left(4x^2 + 1 \right)^{3/2} \right) = \frac{84}{57}$$

$$\frac{27}{47} \left[\frac{1}{6} \left(\frac{3}{16} \right)^{2} - \frac{3}{12} \right] = \frac{1}{6} \left[\frac{63}{3} \right] = \frac{31}{2} \frac{21}{2}$$

$$\frac{1}{6}$$
 $\left(\frac{63}{3} \right) = \frac{31}{3} = \frac{21}{2}$

$$2 = 3 - x - y$$

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$$2 = -1^{2}y = -1$$

$$3 = -1^{2}y = -1$$

$$4 \int_{0}^{2} (3 - y - x) dy dx$$

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$$\int_{0}^{2^{2}} \int_{0}^{+} (12x)^{2} + 1$$

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Budualing 144x2+1 cen be done usne perhal fruhrs: I = 1 AN 144x2+1 - S F88x
2 144x2+1 . x) dx $= x\sqrt{144x^2+1} - \int \frac{144x^2}{\sqrt{144x^2+1}} dx$ x V 144×2+1 - S 144×2+1 dx $\sqrt{a^2 + x^2} \rightarrow \left(\Lambda \right) \left(\alpha + \sqrt{\alpha^2 + t^2} \right)$ 2] = X \ 144 x^2 +1 + In 124 V 144x2+1 &+C (Coost-ver arenes vorng symbolis 13

$$2 = 2(x^{2}+y^{2})$$

$$2x = 4x 2y = 4y 2z = 1$$

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

$$2 = 6 \cdot 2x^{2}$$

$$\sqrt{4x^{3}} 10(x^{2}+y^{2}) + 1$$

$$7 = 0 \rightarrow x = 0$$

$$7 = 0 \rightarrow 8 = 0$$

$$2 = 8 \rightarrow 8 = 2$$

$$\int_{0}^{2h} \int_{0}^{2} \sqrt{168^{2} + 1} d8 d9$$

$$2\pi \int_{0}^{2} \sqrt{160^{2}+1} ds = 2\pi \int_{3}^{2} (16x^{2}+1)^{3/2}$$

$$\frac{17}{24} \left(65^{3/2}-1\right)$$

$$\begin{array}{l} 8 \\ 2 = 8 - 2x - 8 \\ 3 \\ 2 = -2 \quad 2y = -8 \quad 2z = 1 \\ \hline V 64 + 0 + 1 = \sqrt{69} \quad 8y + 2x - 8 \\ y = \frac{8 - 2x - 8y}{5} \quad dy dx \\ = -\frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8y} \right]_{0}^{1 - x/4} dx \\ = -\frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \left(\frac{1 - x}{9} \right) - 4e^{8 - 2x} \right]_{0}^{4} dx \\ = -\frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \left(\frac{1 - x}{9} \right) - 4e^{8 - 2x} \right]_{0}^{4} dx \\ = -\frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \right]_{0}^{4} - \frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \right]_{0}^{4} dx \\ = -\frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \right]_{0}^{4} - \frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \right]_{0}^{4} - \frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \right]_{0}^{4} - \frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \right]_{0}^{4} - \frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \right]_{0}^{4} - \frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \right]_{0}^{4} - \frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \right]_{0}^{4} - \frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \right]_{0}^{4} - \frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \right]_{0}^{4} - \frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \right]_{0}^{4} - \frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \right]_{0}^{4} - \frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \right]_{0}^{4} - \frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \right]_{0}^{4} - \frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \right]_{0}^{4} - \frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \right]_{0}^{4} - \frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \right]_{0}^{4} - \frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \right]_{0}^{4} - \frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \right]_{0}^{4} - \frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \right]_{0}^{4} - \frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \right]_{0}^{4} - \frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \right]_{0}^{4} - \frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \right]_{0}^{4} - \frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \right]_{0}^{4} - \frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \right]_{0}^{4} - \frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \right]_{0}^{4} - \frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \right]_{0}^{4} - \frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \right]_{0}^{4} - \frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \right]_{0}^{4} - \frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \right]_{0}^{4} - \frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \right]_{0}^{4} - \frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \right]_{0}^{4} - \frac{1}{8} \int_{0}^{4} \left[e^{8 - 2x - 8} \right]_{0}^{4} - \frac{1}$$

8) = 7-6Y-2yEx = -6 y = -2 +2=1 1/ t+2+ 42-1 +22 = 541 -> 1' s e-2 J41 dy dx - Styl dy dr $= \int \int e^{6x+2y-7} dy dx = \frac{1}{2} \int \left[e^{6x-5} e^{x-9} \right] dx$ $\left(\frac{1}{2}x\frac{1}{6}\right)\left[e^{6x-5}-e^{6x-5}\right]$ 4541 . 72 {e -2e-15] 1 (e - e 15) 1 (e - e - 3 W (= 11 + e 15)