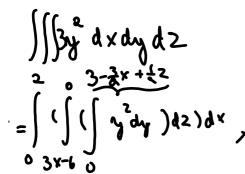
d)  $\iint_A 3\eta^2 - 3z \, dx \, dy \, dz$ 

A = omkidel argument of xy-pland og planet 3x+2y-z=6



 $= \int_{3x-6}^{3} \left( \int_{3}^{3} \frac{1}{3} \left( 3 - \frac{3}{3}x + \frac{1}{3}z \right) dz \right) dx$ 

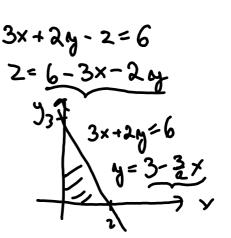
 $=\frac{1}{3}\cdot\frac{1}{3}\int_{0}^{1}\left(3-\frac{3}{3}x\right)^{4}dx=\frac{1}{6}\cdot\frac{1}{5}\left(3-\frac{3}{2}x\right)^{5}\cdot\left(-\frac{3}{3}\right)=0+\frac{81}{5}=\frac{81}{5}.$ 

$$\int \int 32 \, dx \, dy \, dz = 
\int \int (\int 32 \, dz) \, dy) \, dx$$

$$\int \int (\int 32 \, dz) \, dy \, dx$$

$$= -27.$$

Swan:  $\frac{81}{5} + 27 = \frac{216}{5}$ 



b. 10. Sylindurboodinath

X = 1 cool

y = n aint

Z = 2

\[
\iiii \text{f dxdyd2} = \iiii \text{f (n cool, n ainto; 2) n dn d0d2.}

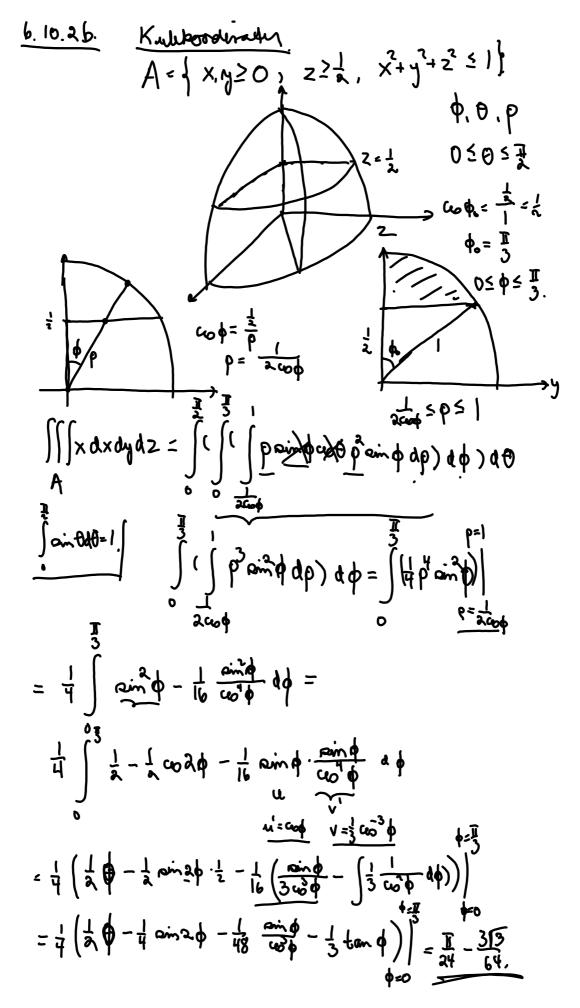
\[
\text{D = beobrische as A i aylindurbose.}

\[
\text{V. subsordination} \\
\text{x = p ainto ainto} \\
\text{y = p ainto ainto} \\
\text{2 = p cool}

\[
\iiiii \text{f dxdyd2} = \iiii \text{f (paintocot painto ainto, pcool) painto dpdtho)}
\]

C) 
$$\int \int ||z||^{2} ||x|^{2} ||dx|| dz$$

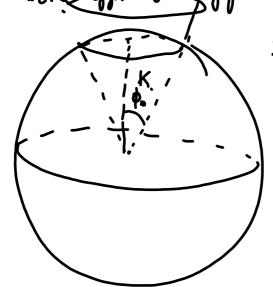
A =  $\int ||x|^{2} + ||x|^{2} ||x|^{2} + ||x|^{2} ||x|^{$ 



$$\begin{array}{lll}
3c & \text{SIS} e^{-ix^2 \eta^{2} + 2^{2} t} \text{ d}x \text{d}y \text{d}z \\
A & \text{D} \leq p \leq 1, 0 \leq \phi \leq \pi, \\
3\pi & \text{D} & \text{D} \leq \theta \leq 2\pi \\
& \text{SIS} & \text{D} \\
& \text{D} \\
& \text{D} \\
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 $Z = \left(\frac{x^2 + y^2}{3}\right)^2$ 



$$x^{2} + y^{2} + \frac{x^{2} + y^{2}}{3} = R^{2}$$
 $x^{2} + y^{2} = \frac{3}{4}R^{2}$ , and which is  $\frac{1}{3}R$ .

 $2 = \frac{3}{4}R^{2} = \frac{1}{2}R$ .

Kulton, 0505 R.

$$Cob_0 = \frac{1}{2}$$
,  $\phi_0 = \frac{1}{3}$ ,  $0 \le \phi \le \frac{1}{$