

#1: Quinto item

#2: $F(x, y, z) := [1, 1, z \cdot (x^2 + y^2)]$

#3: $\text{DIV}(F(x, y, z))$

#4: $(x^2 + y^2)$

#5: $x := r \cdot \cos(\theta)$

#6: $y := r \cdot \sin(\theta)$

#7: $z := z$

#8: θ entre 0 y 2π ; r entre 0 y 1; z entre 0 y 1

#9: $(x^2 + y^2)$

#10: r^4

#11: Y tenemos que $dx dy dz = r dz dr d\theta$

#12: r^5

#13: $\int_0^1 r^5 dr$

#14: $\int_0^{2\cdot\pi} \int_0^1 r^5 dr d\theta$

#15: $\int_0^1 \int_0^{2\cdot\pi} \int_0^1 r^5 dr d\theta dz$

#16: $\frac{\pi}{3}$