15.6 homework

$$\begin{array}{l}
3 \int_{0}^{2} \int_{0}^{2} \int_{0}^{4-z} (2x-y) \, dx \, dy \, dz \\
= \int_{0}^{2} \int_{0}^{2} (x^{2}-yx)^{4-2} \, dy \, dz = \int_{0}^{2} \int_{0}^{2} (y^{2}-2)^{2}+2y \, dy \, dz \\
= \int_{0}^{2} \int_{0}^{2} y^{2}-2yz +2^{2}-y^{2}+2y \, dy \, dz = \int_{0}^{2} \int_{0}^{2} z^{2}-yz \, dy \, dz \\
= \int_{0}^{2} \left(z^{2}y^{2}-2yz +2^{2}-y^{2}+2y \, dy \, dz = \int_{0}^{2} z^{4}-\frac{1}{2}z^{5} \, dz = \left[\frac{1}{5}z^{5}-\frac{1}{12}z^{5}\right] = \frac{1}{5}z^{5}-\frac{1}{6}z^{5} \\
= 32\left(\frac{1}{5}-\frac{1}{6}\right) = \frac{32}{30} = \left[\frac{16}{15}\right]$$

$$\begin{cases}
S = \frac{3}{6}(\frac{x}{4},\frac{y}{2})[x \in [C_3] \land y \in [C_3,x] \land z \in [x-y,x+y] \\
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