Lars Filipsson

EX

D as triangeln used norn i (0,0), (0,4) och (2,4)

y=2x

Integralen dues D:

$$\iint_{0}^{\infty} \frac{y}{2} = \int_{0}^{\infty} (x,y) dxdy = \int_{0}^{\infty} (\int_{0}^{\infty} (x+y) dx) dy = \int_{0}^{\infty} \left[\frac{x^{2}}{2} + xy \right]_{x=0}^{x=3/2} dy = \int_{0}^{\infty} (\int_{0}^{\infty} (x+y) dx) dy = \int_{0}^{\infty} \left[\frac{x^{2}}{2} + xy \right]_{x=0}^{\infty} dy = \int_{0}^{\infty} (\int_{0}^{\infty} (x+y) dx) dy = \int_{0}^{\infty} \left[\frac{x^{2}}{2} + xy \right]_{x=0}^{\infty} dy = \int_{0}^{\infty} \left[\frac{x^{2}}{2} + xy \right]_{x$$

$$= \int_{0}^{4} \left(\frac{y^{2}}{8} + \frac{y^{2}}{2} \right) dy = \frac{40}{3} = *$$
Inte cultid men i det har fallet

Man hade given kunnat integrera med avseende på y fürst:

$$\int_{0}^{2} \left(\int_{2x}^{y} (x+y) dy \right) dx = *$$