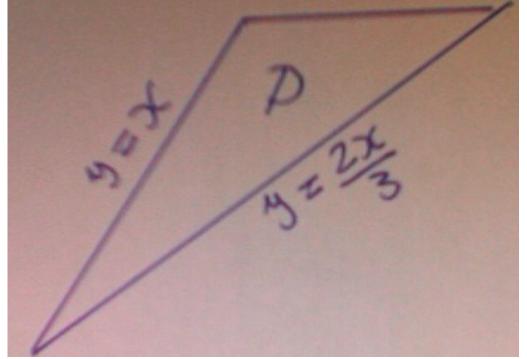
The region D can be described by $0 \le y \le 2$ and $y \le x \le (3y/2)$.



Therefore the double integral of $f(x,y) = (x^4) \cdot y$ over D is...

(dA 27 1