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it is an $(x,y) \in D$, $p(x,y) = xy$
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 $(a+b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$ $M_{x} = \int y g(x,y) dA = \int y f 3xy + y^{2} dy dx \qquad 3 (2^{2})(-2x)^{2}$ $M_{x} = \int y g(x,y) dA = \int y f 3xy + y^{2} dy dx \qquad 3 (2) (-2x)^{2}$ $= \int_{2} \frac{y^{2}}{y^{2}} \left(\frac{y^{2} - 2x}{y^{2}} + \frac{3x}{y^{2}} \right) \frac{y^{2} - 2x}{y^{2}} + \frac{y^{3}}{y^{3}} \left| \frac{y^{2} - 2x}{y^{2}} \right| \frac{x^{2}}{y^{2}} + \frac{y^{3}}{y^{2}} \right| \frac{y^{2} - 2x}{y^{2}} + \frac{2}{y^{3}} + \frac{y^{3}}{y^{2}} + \frac{$ $= \int \frac{|4|}{3} + 2X - 10X^{2} + \frac{|0|}{3} \sqrt{3} dX = \frac{|4|}{3} X + \frac{|2|}{3} \frac{|4|}{|4|} + \frac{|0|}{3} \frac{|4|}{|4|} + \frac{|4|}{|4|} +$ $= \frac{14}{3} + \frac{1}{3} - \frac{10}{12} + \frac{10}{12} = \frac{16 + 12 + 10}{12} = \frac{38}{12} = \frac{19}{6}$ $M_{y} = \int x g(x,y) dA = \int x + 3x^{2} + xy dy dx - 2x Gx^{2} + 4x^{2} + 2x Gx^{2} + 4x^{2} + 2x Gx^{2} + 3x^{2} y | y=2-2x + 2x^{2} + 2x^{2} | y=2-2x + 2x^{2} + 2x^$ = $\int 2 - 2x + 3x^2(2 - 2x) + \frac{x}{2}(4 - 8x + 4x^2) dx$ $= \int 2 + 2x^{2} - 4x^{3} dx = 2x \Big|_{x=0}^{x=1} + 2x^{3} \Big|_{x=0}^{x=1} - 4x^{4} \Big|_{x=0}^{x=1} = 2 + 2 - 1 = 5$ $(\tilde{X}, \tilde{Y}) = (\frac{5}{8} \times \frac{3}{8}, \frac{19}{5} \times \frac{19}{8}) = (\frac{5}{8}, \frac{19}{16})$ Ix = Sypex, y) dA, Iy = Sxp(x, y) dA