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(c) In the order $dydx dz$, the integral is easiest to write down by consulting the figure drawn in the previous part; one gets $\int_0^1 \int_0^{1-z} \int_0^{1-z-y} f(x;y;z) dy dx dz$: 5. Let $G(x;y)=(x^2+y^2+2xy)i+(y^2+y^2+x^2)j$. (a) Show that $G = \nabla f$ for some f ; find such an f . (b) Use (a) to show that the line integral of G around the edge of the triangle with

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16 Vector Calculus 16.1 Vector Fields This chapter is concerned with applying calculus in the context of vector fields. A two-dimensional vector field is a function f that maps each point (x, y) in \mathbb{R}^2 to a two-dimensional vector u, v , and similarly a three-dimensional vector field maps (x, y, z) to

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