

Double integration

1. Set up a double integral for the mass of the planar region R with a variable density $\delta(x, y)$. Use a simple sketch to illustrate the setup.

Note: the problem as stated is abstract, so your solution will also be abstract. The goal here is to focus on the simple idea of slicing the region into small pieces and summing the contributions of each of the pieces that is the basis of integration.

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18.02SC Multivariable Calculus
Fall 2010

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