

# MIT Introduction to Statistics 18.05 Reading 7

## Think Questions

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## 1 References and License

We are answering questions in the material from MIT OpenCourseWare course 18.05, Introduction to Probability and Statistics.

In this document we are answering questions Orloff and Bloom ask in **[reading7]**.

Please see the references section for detailed citation information.

The material for the course is licensed under the terms at <http://ocw.mit.edu/terms>.

We use documentation in **[vennDiagram]**, **[nodePos]**, **[plotPoints]**, **[plotFunc]** to write L<sup>A</sup>T<sub>E</sub>Xsource code for this document.

## 2 Surface Plot

In **[reading7]**, Orloff and Bloom ask us to sketch a plot of  $f(x, y) = 4xy$ , and visualize the probability  $P(A)$  as a volume for example 5. We should mention that example 5 from **[reading7]** is the event  $X < 0.5, Y > 0.5$ .