## Surface Area of a Wine Glass

Professor Jerison found the volume of a "wine glass" shape formed by revolving the graph of $y=e^{x} \quad(0 \leq x \leq 1)$ about the $y$-axis. Set up but do not evaluate an integral to compute the surface area of that shape.

MIT OpenCourseWare
http://ocw.mit.edu

### 18.01SC Single Variable Calculus] []

Fall 2010 ㅁ

For information about citing these materials or our Terms of Use, visit: http://ocw.mit.edu/terms.

