- Find the volume below the surface z = 1 + x + y and above the region R in the xy-plane bounded by the graphs x = 1, y = 0, y = x².
- 2. Find the volume below the surface $z = e^{-x^2}$ and above the triangle R in the *xy*-plane bounded by the *x*-axis, the line x = 1, and the line y = x.

3. Evaluate
$$\int_0^{\pi} \int_x^{\pi} \frac{\sin(y)}{y} dy dx$$
 by reversing the order of integration.

Image: A math a math