- 1. Find the volume below the surface z = 1 + x + y and above the rectangle $R = \{(x, y) | 0 \le x \le 2, 0 \le y \le 3\}$ in the *xy*-plane.
- 2. Find the volume below the surface z = 1 + x + y and above the region R in the xy-plane bounded by the graphs $x = 1, y = 0, y = x^2$.
- 3. 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.
- 4. Evaluate $\int_0^{\pi} \int_{x}^{\pi} \frac{\sin(y)}{y} dy dx$ by reversing the order of integration.
- 5. Find the volume of the first octant part of the solid bounded by the cylinders $x^2 + y^2 = 1$ and $y^2 + z^2 = 1$.

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