

1. Find the volume below the surface $z = 1 + x + y$
and above the rectangle $R = \{(x, y) \mid 0 \leq x \leq 2, 0 \leq y \leq 3\}$
in the xy -plane.
2. Find the volume below the surface $z = x \cdot y \cdot \cos(x) + 3$
and above the rectangle $R = [-\pi, \pi] \times [0, 1]$
in the xy -plane.