Example 1. Find the area of the plane \( z = 8 + 2x + 5y \) that lies above the rectangle \([0, 3] \times [1, 6]\).

Example 2. Find the area of the surface. The part of the surface \( z = 2xy \) that lies within the cylinder \( x^2 + y^2 = 2 \).

Example 3. Find the area of the surface. The part of the plane \( 2x + 3y + z = 8 \) that lies in the first octant.