

$$f(x, y) = 1 + 2x + 3y \quad R = [1, 2] \times [0, 1]$$

$$\iint_R (1 + 2x + 3y) dx dy = \int_1^2 \left(\int_0^1 (1 + 2x + 3y) dy \right) dx =$$

$$= \int_1^2 \left(y + 2xy + \frac{3}{2}y^2 \Big|_0^1 \right) dx = \int_1^2 \left(1 + 2x + \frac{3}{2} \right) dx =$$

$$= x + x^2 + \frac{3}{2}x \Big|_1^2 = 2 + 4 + 3 - 1 - 1 - \frac{3}{2} = 5 \frac{1}{2}$$