

Exercitiul 3

$$\iint_D x^2 y \, dx \, dy \text{ unde } D = \{ 1 \leq x^2 + y^2 \leq 4, 0 \leq y \}$$

$$0 \leq y \leq 2$$

$$0 \leq y^2 + x^2$$

$$x^2 \leq x^2 + y^2 \leq 4$$

$$\Rightarrow x^2 \leq 4$$

$$x \in [-2, 2]$$