Math 201-13

Quiz #4

Exercise 1 Find the average height of the paraboloid $z = x^2 + y^2$ over the region

$$D = \{(x, y) : 1 \le x \le 2, 0 \le y \le 1\}$$

Exercise 2 Find the area of the region enclosed by the positive x-axis (polar line) and spiral $r=3e^{2\theta}$, $0\leq\theta\leq2\pi$.