

MATH 201.2 (091)

Quiz 5 (Chap. 15.3-8)

Duration: 20mn

Name:

ID number:

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1.) (5pts) Evaluate  $\iint_E \sqrt{4-x^2-y^2} dA$ , where  $E = \{(x, y) / 0 \leq x^2 + y^2 \leq 4, x \geq 0\}$ .

2.) (5pts) Evaluate  $\int_{-2}^2 \int_{-\sqrt{4-x^2}}^{\sqrt{4-x^2}} \int_0^{\sqrt{4-x^2-y^2}} z^2 \sqrt{x^2 + y^2 + z^2} dz dy dx$ .