

**KFUPM**

Name: \_\_\_\_\_

**QUIZ (4a)**

S.ID: \_\_\_\_\_

**MATH 201-181**

Sec.(      ) Ser.#(      )

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Q1) Evaluate the iterated integral  $\int_0^1 \int_{\sqrt{x}}^1 \sin y^3 dy dx$ .

Q2) Set up the integral to determine the area of the region that lies  
inside  $r = 5 + 2 \sin \theta$  and outside  $r = 4$ .