

**King Fahd University of Petroleum and Minerals**  
**Department of Math & Stat**  
**Math 132 Section # 1, 5 (092)**  
**Quiz 4(a)**

Time: 20 minutes

Marks: \_\_\_\_\_/9

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Name: \_\_\_\_\_ Section #: \_\_\_\_\_

ID #: \_\_\_\_\_ Serial #: \_\_\_\_\_

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1. Evaluate:  $\int_e^{e^2} \frac{dx}{x(\ln x)}$ .

2. Find the area of the region bounded by the graphs of the equations  $x = y^2$  and  $2y^2 = x + 4$ .

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Name: \_\_\_\_\_ Section #: \_\_\_\_\_

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1. Evaluate:  $\int_1^8 (x^{1/3} - x^{-1/3}) dx$ .

2. Find the area between the curves  $2y = 4x - x^2$  and  $2y = x - 4$ .

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1. Evaluate:  $\int_{-3}^1 9|x| dx$ .

2. Find the area between the curves  $x = y^2 + 2$  and  $x = 8$ .