

KFUPM Term (151) Name _____

MATH 201 Quiz # 6 ID# _____ Section 02

1) Evaluate $\int_0^{2\sqrt{\ln 3}} \int_{y/2}^{\sqrt{\ln 3}} e^{x^2} dx dy$.

2) Find the average height of the paraboloid $z = x^2 + y^2$ over the square $0 \leq x \leq 2, 0 \leq y \leq 2$.

KFUPM Term (151) Name _____

MATH 201 Quiz # 6 ID# _____ Section 07

1) Evaluate $\int_0^2 \int_0^{4-x^2} \frac{xe^{2y}}{4-y} dy dx$.

2) Find the average value of $f(x, y) = 1/(xy)$ over the square $\ln 2 \leq x \leq 2 \ln 2$,
 $\ln 2 \leq y \leq 2 \ln 2$.