

Jessenia bello
Lecture quiz 13

Question 1)

$$0 < x < \ln y$$

$$1 < y < 4$$

$$0 < x < \ln 4$$

$$e^y < y < 4$$

$$\int_0^4 \int_{\ln y}^{\ln 4} f(x,y) dx dy$$

$$\int_0^4 \int_{\ln y}^{\ln 4} (f(x,y) - e^y) dx dy$$

Question 2)

$$0 < y < 2$$

$$1/2 < x < 1$$

$$0 < x < 1$$

$$0 < y < 2x$$

$$\int_0^2 \int_{1/2}^1 (2x/x^2 + 1)^2 dx dy \text{ using maple}$$