

1. Evaluate

a) $\int_1^2 \int_1^4 \ln(x, y) dx dy$

b) $\int_0^2 \int_1^3 x(x^2 + 2y)^{3/2} dx$

$$\text{c) } \int_0^1 \int_0^2 ye^{xy} dy dx$$