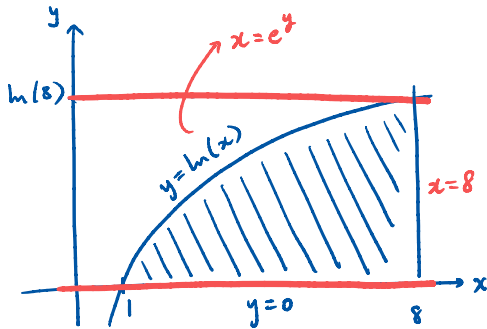


3 If we have time...

Example 6. Sketch the region of integration D for the double integral $\int_1^8 \int_0^{\ln(x)} f(x, y) dy dx$. Reverse the order of integration.



$$\int_1^8 \int_0^{\ln(x)} f(x, y) dy dx$$
$$= \int_0^{\ln(8)} \int_{e^y}^8 f(x, y) dx dy$$