

$$\int_0^1 \int_0^1 \frac{1}{1+xy} \, dx \, dy = \int_0^1 \int_0^1 \frac{1}{1+xy} \, dy \, dx = \frac{1}{2} \int_0^1 \int_0^1 \frac{1}{1+xy} \, dx \, dy + \frac{1}{2} \int_0^1 \int_0^1 \frac{1}{1+xy} \, dy \, dx$$