

Evaluate the following definite integrals.

1)  $\int_0^2 e^x dx$

2)  $\int_0^2 e^x dx$

3)  $\int_1^5 \frac{1}{x} + x dx$

4)  $\int_0^2 xe^{x^2} dx$

5)  $\int_0^2 \frac{\ln(2x+1)}{x} dx$