

Full name(s): _____ .

Questions

1. Evaluate each of the following integrals via substitution.

(a) $\int_0^2 xe^x dx$

(b) $\int x^2 e^x dx$

(c) $\int \sin(x)e^{-x} dx$

(d) $\int x \ln(x) dx$

(e) $\int_0^1 x\sqrt{x+1} dx$

(f) $\int x^5\sqrt{x^3+1} dx$