

Instructions: You must show all work to receive full credit for the problems below. You may check your work with a calculator, but answers without work will receive minimal credit. Use exact answers unless the problem starts with decimals or you are specifically asked to round.

1. Integrate.

a. $\int \frac{(\ln x)^7}{x} dx$

b. $\int t^2 e^{-t^3} dt$

c. $\int x e^{-2x} dx$

d. $\int x^2 \ln 5x dx$