

Quiz 9

Name: _____

1. Find the following integrals.

(a) $\int \frac{1}{x \ln(x)} dx$
 $\ln |\ln(x)| + C$

(b) $\int x^2 e^{-x^3} dx$

With $u = -x^3$, $du = -3x^2 dx$: becomes

$$-\frac{1}{3} \int e^u du = -\frac{1}{3} e^u + C = -\frac{1}{3} e^{-x^3} + C$$