MATH 211: 10-9 WORKSHEET

(1) Evaluate
$$\int \frac{\ln x}{x^2}\, \mathrm{d}x.$$

(2) Evaluate
$$\int_0^1 x e^{-x}\, \mathrm{d}x.$$

(3) Evaluate
$$\int x^2 \sin(x^2)\, \mathrm{d}x$$