No notes, books, cellular devices or graphing calculators are to be used.

1. (9.5 #1) Find the present value of a continuous stream of income over 5 years when the rate of income is constant at $35,000 per year and the interest rate is 7%.

2. (9.2 #21) Evaluate the indefinite integral \( \int \ln(x^4) \, dx \).
3. (9.3 #5&13) Evaluate the following definite integrals.

(a) \[ \int_{0}^{3} \frac{x}{\sqrt{x + 1}} \, dx \]

(b) \[ \int_{1}^{3} x^2 e^{-x} \, dx \]