QUIZ 4 - MATH 152 YOUR NAME:

Read each problem **very carefully** before starting to solve it. Each problem is worth 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. (a) Evaluate the indefinite integral $\int \frac{\ln x}{x} dx$.

(b) Evaluate the improper integral $\int_{1}^{+\infty} \frac{\ln x}{x} dx$. Use the **proper limit notation!**

2. Evaluate the improper integral
$$\int_{-3}^{0} \frac{1}{(x+3)^2} dx$$
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