YOUR NAME:_____   George Voutsadakis

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. Compute the improper integral $\int_1^\infty \frac{1}{\sqrt[3]{x^2}} dx$.

2. Compute the improper integral $\int_e^\infty (\ln x)^{-2}\frac{1}{x}dx.$