

YOUR NAME: _____

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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. Evaluate the improper integral $\int_5^{\infty} \frac{3}{(3x-1)^7} dx$.

2. Evaluate the improper integral $\int_{-\infty}^0 \frac{x^4}{(x^5-1)^2} dx$.