

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. Compute the definite integral $\int_0^1 \frac{5x}{1+x^2} dx$.

2. Compute the indefinite integrals:

(a) $\int x^6 \ln x dx$.

(b) $\int (5x+2)(x+7)^{10} dx$.