<u>Present neatly on separate paper. Justify for full credit. No Calculators.</u>

Name _____   Score _____ A (5 minutes)

1)Evaluate the integral:

$$\int_{1}^{3} r^{3} \ln r \, dr$$

Present neatly ~~on separate paper~~. Justify for full credit. No Calculators.

Name _____   Score _____ F (5 minutes)

1) Evaluate the integral

$$\int_0^{2\pi} t^2 \sin 2t \, dt$$