Name:

(1) [7 points] Use Simpson's rule with n=4 to approximate $\int_0^{2\pi} x \sin(x) dx$. Simplify your final answer.

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(2) [8 points] Evaluate the improper integral $\int_{-\infty}^{0} xe^{-x^2} dx$. Clearly and neatly show all details, including any required substitutions or limits.

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