

October 12, 2004

Show all work for credit.

State which of the following integrals is improper, then evaluate. If you need more room, use the back of the paper, and put a star by your name for an extra point. Show all your steps, including limits where needed.

1. $\int_0^{\infty} xe^{4x} dx$

2. $\int_0^5 \frac{-3}{x-2} dx$