

**MATH 202**

**Name:**\_\_\_\_\_

**In class work 9**

**Row:**\_\_\_\_\_

*"You are never dedicated to something you have complete confidence in."*

ROBERT PIRSIG

1. Use IBP to find each of the following

1

(a)  $\int x(x+1)e^x dx$

1

(b)  $\int \sin(x)e^x dx$

1 (c)  $\int x^8 \ln(x) \, dx$

1 (d)  $\int x(x-1)^{107} \, dx$  (**Hint** Try differentiating  $x$  and integrating  $(x-1)^{107}$ . Let's not attempt to expand  $(x-1)^{107}$ ).