

Please show **all** your work! Answers without supporting work will not be given credit.  
Write answers in spaces provided.

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

1. [5 pts] Compute  $\int_0^{\pi} 10x \sin(3x) dx$

$$\int_0^{\pi} 10x \sin(3x) dx = \underline{\hspace{4cm}}$$

2. [5 pts] Compute  $\int x^{-4} \ln x dx$

$$\int x^{-4} \ln x dx = \underline{\hspace{4cm}}$$