Name:	Date:	

$${\rm Math}~2 - {\rm Quiz}~5$$

1. [6 pts] Use integration by parts to calculate

$$\int\limits_{1}^{3} x^{2} \ln(x) \, dx$$

2. [6 pts] Calculate $\int_{0}^{\pi} \sin^{5}(x) dx$. Simplify your answer.