NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points)

Evaluate $\int x^5 e^{x^3} dx$. (Hint: use the substitution $t = x^3$).

Exercise 2 (5 points)

Evaluate $\int e^x \sin^3(e^x) \cos^2(e^x) dx$.

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Exercise 1 (5 points)

Evaluate $\int \sin(2x)\ln(\sin x)dx$. (Hint: use the substitution $t = \sin x$)

Exercise 2 (5 points)

Evaluate $\int x\tan^3(x^2)\sec^4(x^2)dx$