

LAST NAME:

FIRST NAME:

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**MATH 65B - Spring 2018**

Groupwork 2: January 23, 2018

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1. Compute the following indefinite integral.

$$\int x^6 \ln(x) dx$$

2. Compute the following definite integral.

$$\int_0^{\pi} e^{\sin(x)} \cos(x) dx$$

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**Please, show all work.**

3. Compute the following indefinite integral.

$$\int e^{2x} \sin(x) dx$$

4. Compute the following indefinite integral.

$$\int \sin^2(x) \cos^5(x) dx$$

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**Please, show all work.**

5. Compute the following indefinite integral.

$$\int \tan^4(x) dx$$

6. Compute the following indefinite integral.

$$\int \sin^4(x) dx$$

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Please, show all work.