

# QUIZ 1 - MATH 152

Friday, August 28

YOUR NAME: \_\_\_\_\_

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Read each problem **very carefully** before starting to solve it and do only what is asked. Each problem is worth around 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. [8 points] Compute the following integrals:

(a)  $\int \frac{x}{\sqrt{1-x^2}} dx$

(b)  $\int_0^{\frac{\pi}{4}} \frac{\sin \theta}{\cos^4 \theta} d\theta$

2. [4 points] Compute the integral

$$\int x e^{7x} dx.$$