

QUIZ 2 - MATH 152

Friday, September 4

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. [4 points] Compute the integral

$$\int \sin^3 x \cos^6 x dx.$$

2. [8 points] Compute the following integrals.

(a) $\int \frac{dx}{(1+x^2)^{\frac{3}{2}}}$

(b) $\int \frac{dx}{\sqrt{4-x^2}}$