

Math 132 - Quiz 3

February 24, 2021

Name _____

Score _____

Show all work to receive full credit. Supply explanations when necessary. This quiz is due March 3.

1. (2 points) Use integration by parts to evaluate $\int \cos(5t) \sin(6t) dt$.

2. (2 points) Use a product-to-sum trig identity to evaluate $\int \cos(5t) \sin(6t) dt$.

Turn over.

3. (2 point) Integrate: $\int_0^1 (2x^2 + 3x) e^{5x} dx$

4. (2 points) Integrate: $\int \frac{\cos^5 x}{\sqrt{\sin x}} dx$

5. (2 points) Integrate: $\int \tan^3 x \sec^4 x dx$