

Name: _____

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Each problem is worth 2 points: 1 for work and 1 for the answer. Your work should be organized. Your answer should be in a box. This quiz is an excellent measure of readiness for Calculus II. You **should** be able to complete this in 30 minutes or less. To encourage you to pay attention to time, we have added blanks for that, too. **If you use aids of any kind you are completely missing the point of this exercise.**

Time Started: _____

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Evaluate the indefinite and definite integrals.

1. [2 points] $\int 5 \sin\left(\frac{\pi}{2}\theta\right) d\theta$

2. [2 points] $\int 3x - e^{3x} dx$

3. [2 points] $\int \frac{1}{6-7t} dt$

4. [2 points] $\int \frac{ax}{\sqrt{1-ax^2}} dx$

OPTIONAL Math 251: Quiz 11

Due 5:00PM 24 April, 2020

5. [2 points] $\int_1^3 te^{t^2} dt$

6. [2 points] $\int_0^{\pi/4} \cos(2t)(1 + \sin(2t))^2 dt$

7. [2 points] $\int_0^1 \frac{1 + e^x}{x + e^x} dx$

8. [2 points] $\int \frac{dx}{1 + 16x^2}$