

MT 1810 Calculus II
Module II, Antiderivatives Quiz

Name: _____

Purpose: To test your ability to find antiderivatives.

Procedure: Work on the following antiderivatives quiz alone. You are allowed to have a non-graphing, non-integrating calculator.

Find the following antiderivatives:

1. $\int x^5 + x \, dx =$ _____

2. $\int \cos(3x) \, dx =$ _____

3. $\int e^{-2x} \, dx =$ _____

4. $\int x \cdot \sin 5x \, dx =$ _____

5. $\int e^x \cdot \cos(2e^x) = \underline{\hspace{2cm}}$

6. $\int \frac{2}{x} dx = \underline{\hspace{2cm}}$

7. $\int \sin(\pi) dx = \underline{\hspace{2cm}}$

8. $\int x^2 \cdot e^{x^3+1} dx = \underline{\hspace{2cm}}$

9. $\int \frac{\cos x}{\sqrt{\sin x}} dx = \underline{\hspace{2cm}}$

10. $\int x^5 \cdot \ln x dx = \underline{\hspace{2cm}}$