

Math 155 Section 02 Final Exam
Prof. I. Kapovich

Thursday, December 15, 2022, 11:30am-1:30pm, HW 511

1. The integral $\int \sin^4 x \cos x \, dx$ is equal to:

- (A) $\frac{\cos^5 x}{5} + C$.
- (B) $\frac{\sin^5 x}{5} + C$.
- (C) $\frac{\cos^4 x}{4} + C$.
- (D) $\frac{\sin^4 x}{4} + C$.

Answer: (B)

We have

$$\int \sin^4 x \cos x \, dx = \int \sin^4 x \, d \sin x = \quad [\text{with } u = \sin x]$$
$$\int u^4 \, du = \frac{u^5}{5} + C = \frac{\sin^5 x}{5} + C.$$

2. Consider the sequence a_n defined as $a_1 = 1$, $a_{n+1} = \sqrt{3 + 2a_n}$ for $n \geq 1$. Taking for granted that a finite limit $L = \lim_{n \rightarrow \infty} a_n$ exists, the value of L is equal to:

- (A) 1
- (B) 2
- (C) 3
- (D) -3
- (E) None of the above.

Answer: (C)

In the limit we have

$$L = \sqrt{3 + 2L}$$
$$L^2 = 3 + 2L$$
$$L^2 - 2L - 3 = 0$$
$$(L - 3)(L + 1) = 0$$
$$L = 3 \quad \text{or} \quad L = -1.$$

From the definition of the sequence $a_1 = 1$, $a_{n+1} = \sqrt{3 + 2a_n}$ we see that $a_n \geq 0$ for every $n \geq 1$ and therefore $L = \lim_{n \rightarrow \infty} a_n \geq 0$ as well. Thus $L = -1$ is impossible and therefore $L = 3$.

3. Exactly one of the following statements is true. Indicate which one.

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Clemens Wendtner



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