

ĐÁP ÁN KIỂM TRA HỌC KỲ II - NĂM HỌC 2020 - 2021
Môn : TOÁN 12

PHẦN I. TRẮC NGHIỆM (30 câu - 6 điểm)

Đáp án mã đề: 801

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Đáp án mã đề: 802

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Đáp án mã đề: 803

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Đáp án mã đề: 804

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PHẦN II. TỰ LUẬN (4 câu - 4 điểm)

Câu 1. Tính $I = \int_0^1 x^2 \sqrt{x} dx$?

$$\bullet I = \int_0^1 x^2 \cdot x^{\frac{1}{2}} dx \bullet = \int_0^1 x^{\frac{5}{2}} dx \bullet = \frac{2}{7} x^{\frac{7}{2}} \Big|_0^1 \bullet = \frac{2}{7}$$

Câu 2. Cho hình phẳng (S) giới hạn bởi Ox và $y = \sqrt{4-x^2}$. Tính thể tích của khối tròn xoay khi quay (S) quanh trục Ox ?

PTHĐGD $\sqrt{4-x^2} = 0 \bullet \Leftrightarrow x = \pm 2$

$$\bullet V = \pi \int_{-2}^2 (\sqrt{4-x^2})^2 dx \bullet = \pi \int_{-2}^2 (4-x^2) dx = \pi \left(4x - \frac{x^3}{3} \right) \Big|_{-2}^2 \bullet = \frac{32}{3} \pi$$

Câu 3. Tìm cặp số thực (x ; y) thỏa $x(2-3i) + y(1-2i) = -2+5i$?

$$\bullet \Leftrightarrow 2x - 3xi + y - 2yi = -2 + 5i \bullet \Leftrightarrow (2x + y) + (-3x - 2y)i = -2 + 5i \bullet \Leftrightarrow \begin{cases} 2x + y = -2 \\ -3x - 2y = 5 \end{cases} \bullet \Leftrightarrow \begin{cases} x = 1 \\ y = -4 \end{cases}$$

Câu 4. Trong không gian Oxyz, hãy viết phương trình tham số của đường thẳng qua hai điểm M(0, -2, 1) và N(3, 2, 0) ?

Đường thẳng MN đi qua $\bullet M(0, -2, 1)$ và có \bullet VTCP $\overrightarrow{MN} = \bullet(3, 4, -1)$

$$\Rightarrow \text{PTTS MN : } \bullet \begin{cases} x = 3t \\ y = -2 + 4t \\ z = 1 - t \end{cases}, t \in R$$