



University of Sri Jayewardenepura

B.Sc. Degree First Year End of Second Semester
Course Unit Examination - May 2021

MAT 123 1.0 Vector Calculus
MAT 128 1.0 Mathematical Tools and Computer Applications II

Time – Forty Five (45) Minutes

Answer All Questions

The symbols have their usual meanings throughout the question paper.

1.(a) Consider the scalar field $\phi = xy(x + yz^2)$. Suppose that the point $P(3, 1, 1)$ is in the domain of the scalar field ϕ . Find the following.

- (i) gradient of ϕ at the point P .
- (ii) directional derivative of ϕ at P towards the point $(4, 1, 0)$.

$\phi = xy(x + yz^2)$ බැවින් ජ්‍යෙෂ්ඨය සලකන්න. $P(3, 1, 1)$ ක්‍රමයෙන් ϕ බැවින් ජ්‍යෙෂ්ඨයේ එමඟ අග්‍රය යටි සිටිනු ලබන ඒවා සොයන්න.

- (i) P ක්‍රමයෙන් ϕ හි අග්‍රයෙහි.
- (ii) P හි $(4, 1, 0)$ ක්‍රමයෙන් දිශාවට ϕ හි දිශා අග්‍රයෙහි.

2.(i) In an Oxy plane, sketch roughly the curves $y = 1 - x^2$ and $y = 3(1 - x^2)$, and shade the region R bounded by the curves.

Oxy තලයේ, $y = 1 - x^2$ සහ $y = 3(1 - x^2)$ අග්‍රය අග්‍රය සැලකීම අග්‍රයෙහි සහිතව R සහිතව අග්‍රය සොයන්න.

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Michal Rosen-Zvi



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