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CALCULUS III - A» Department of Mathematics

Chapter 18 Vector Calculus 282 x 18.1. Vector Fields A vector field is an association of a vector to each point X of a region R : (18.2) $F(x; y z) = \dots$. Thus, it is the velocity field of the fluid that is the object of study, rather than the equations of motion. It can be shown that the velocity field completely determines the motion.

Vector Calculus - Math

Objectives for MTH 277: Vector Calculus The student will be able to: 1. Review basic differentiation and integration techniques from Calculus BC. 2. Graph vectors in a plane. ... Compute vector fields and study their applications. 26. Set up and compute line integrals. 27. Study conservative vector fields and independence of path.

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