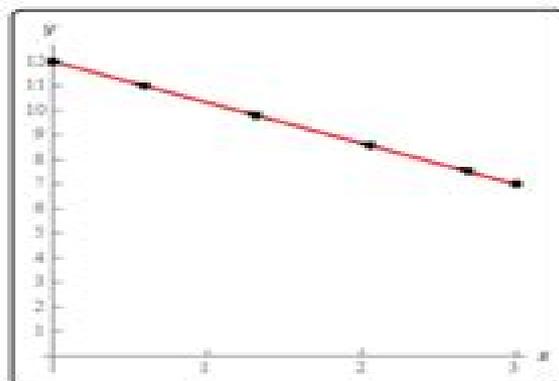


16.4 Line Integrals of Vector Fields

1. Evaluate $\int_C \vec{F} \cdot d\vec{r}$ where $\vec{F}(x, y) = y^2 \vec{i} + (3x - 6y) \vec{j}$ and C is the line segment from $(3, 7)$ to $(0, 12)$.

Step 1

Here is a quick sketch of C with the direction specified in the problem statement shown.



Step 2

Next, we need to parameterize the curve.

$$\vec{r}(t) = (1 - t) \langle 3, 7 \rangle + t \langle 0, 12 \rangle = \langle 3 - 3t, 7 + 5t \rangle \quad 0 \leq t \leq 1$$

Step 3

In order to evaluate this line integral we'll need the dot product of the vector field (evaluated along the curve) and the derivative of the parameterization. Here is the vector field evaluated along the curve (i.e. plug in x and y from the parameterization into the vector field).

$$\vec{F}(\vec{r}(t)) = (7 + 5t)^2 \vec{i} + (3(3 - 3t) - 6(7 + 5t)) \vec{j} = (7 + 5t)^2 \vec{i} + (-33 - 39t) \vec{j}$$

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1. Understanding the eBook 5 1 Vector Calculus And Line Integrals Mathsd
 - The Rise of Digital Reading 5 1 Vector Calculus And Line Integrals Mathsd
 - Advantages of eBooks Over Traditional Books
2. Identifying 5 1 Vector Calculus And Line Integrals Mathsd
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 5 1 Vector Calculus And Line Integrals Mathsd
 - User-Friendly Interface
4. Exploring eBook Recommendations from 5 1 Vector Calculus And Line Integrals Mathsd
 - Personalized Recommendations
 - 5 1 Vector Calculus And Line Integrals Mathsd User Reviews and Ratings
 - 5 1 Vector Calculus And Line Integrals Mathsd and Bestseller Lists
5. Accessing 5 1 Vector Calculus And Line Integrals Mathsd Free and Paid eBooks
 - 5 1 Vector Calculus And Line Integrals Mathsd Public Domain eBooks
 - 5 1 Vector Calculus And Line Integrals Mathsd eBook Subscription Services
 - 5 1 Vector Calculus And Line Integrals Mathsd Budget-Friendly Options

6. Navigating 5 1 Vector Calculus And Line Integrals Mathsd eBook Formats
 - ePub, PDF, MOBI, and More
 - 5 1 Vector Calculus And Line Integrals Mathsd Compatibility with Devices
 - 5 1 Vector Calculus And Line Integrals Mathsd Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 5 1 Vector Calculus And Line Integrals Mathsd
 - Highlighting and Note-Taking 5 1 Vector Calculus And Line Integrals Mathsd
 - Interactive Elements 5 1 Vector Calculus And Line Integrals Mathsd
8. Staying Engaged with 5 1 Vector Calculus And Line Integrals Mathsd
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 5 1 Vector Calculus And Line Integrals Mathsd
9. Balancing eBooks and Physical Books 5 1 Vector Calculus And Line Integrals Mathsd
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 5 1 Vector Calculus And Line Integrals Mathsd
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 5 1 Vector Calculus And Line Integrals Mathsd
 - Setting Reading Goals 5 1 Vector Calculus And Line Integrals Mathsd
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 5 1 Vector Calculus And Line Integrals Mathsd
 - Fact-Checking eBook Content of 5 1 Vector Calculus And Line Integrals Mathsd
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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