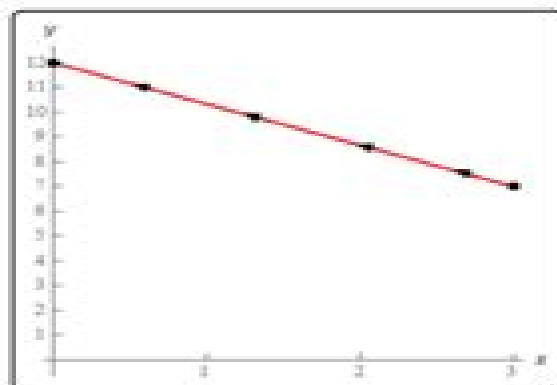


16.4 Line Integrals of Vector Fields

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.

$$\vec{r}(t) = (1 - t) \langle 3, 7 \rangle + t \langle 0, 12 \rangle = \langle 3 - 3t, 7 + 9t \rangle \quad 0 \leq t \leq 1$$

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).

$$\vec{F}(\vec{r}(t)) = (7 + 9t)^2 \vec{i} + (3(3 - 3t) - 6(7 + 9t)) \vec{j} = (7 + 9t)^2 \vec{i} + (-33 - 54t) \vec{j}$$

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