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Gradient Theorem

Let $\phi(m{r})=x^2y+xy^2+z$.

- (a) Compute ${f
 abla} \phi$.
- (b) Compute $\int_{C} oldsymbol{
 abla} \phi \cdot doldsymbol{r}$ from (0,0,0) to (1,1,1) using the gradient theorem.
- (c) Compute $\int_{C} oldsymbol{
 abla} \phi \cdot d oldsymbol{r}$ along the lines segments (0,0,0) to (1,0,0) to (1,1,0) to (1,1,1).

✓ Completed

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