# CSE 300: Online Assignment

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# Introduction 1

This assignment has been designed to assess the preparation of the students in writing scientific articles using LATEX. This assignment covers a variety of components that are commonly used in scientific manuscripts

### 1.1 **Equations**

Let C be a simple piecewise smooth curve that bounds a region D in the plane. If P(x,y) and Q(x,y) have continuous partials in an open region containing D, then  $\int_C Pdx + Qdy = \iint_D \frac{\partial Q}{\partial x} - \frac{\partial P}{\partial y}dA$ If **F** is a vector field with third component 0 defined on a domain *D* enclosed

by boundary C then

$$\oint_{C} \mathbf{F} \cdot d\mathbf{r} = \iint_{D} (\nabla \times \mathbf{F}) \cdot \mathbf{k} dA$$
Similarly, if  $C$  is defined by  $\mathbf{r}(t) = \langle x(t), y(t) \rangle$ 
$$\oint_{C} \mathbf{F} \cdot \mathbf{n} ds = \iint_{D} \nabla \cdot \mathbf{F} dA$$

#### 1.2 **Tables**

We wish to place the Table at the bottom of the page.

## 1.3 **Figures**

We intend to put Figure 1 at the top of a page.

# 2 Conclusions

The major objectives of this assignment are listed below (please do not ignore the font sizes).

- To assess the ability of the students in preparing manuscripts in LATEX.
- To see if the students have adequately practiced different aspects of writing in LATEX.
- To see if the students can add various basic components (e.g., tables, figures, equations) to a LATEX manuscript.
- To see if the students can leverage the available materials (both offline and online) to do something which has not explicitly been taught in the class.

Item List			
Item Name or	ALPHA 2 Code	ALPHA 3 Code	Numeric Code
Product Name			
Item001	AF	AFG	001
			002
Item002	AX	ALA	003
Item003	AL	ALB	004
			005
			006
			008
Item004	DZ	DZA	009
			010
Item005	AS	ASM	011
			012
Item006	AD	AND	013
Item007	AO	AGO	014

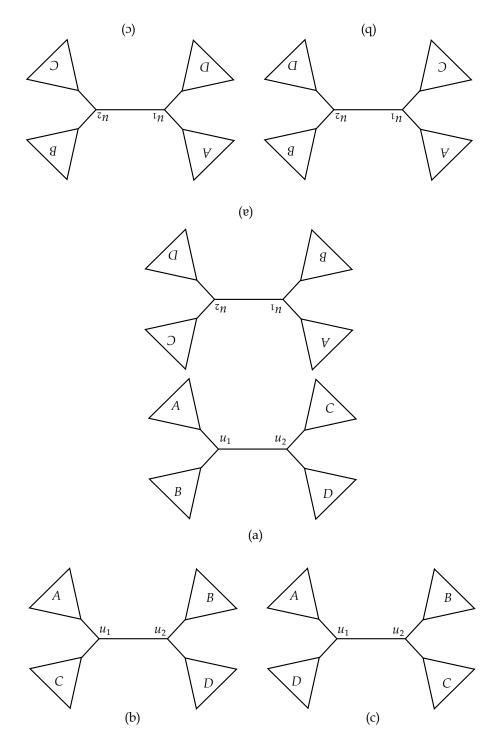


Figure 1: Same figure upside down