1. Interpretation of Divergence.

EN: 
$$\nabla \cdot D = Sv$$

Consider  $D = k(N \otimes_N + y \otimes_y)$ 

Colculate the value of charge that originales from which the field disjunctes for  $V \cdot D = 2$ 

D) is  $K = 2$ 
 $V \cdot D = 4$ .

2. Interpretation of divergen gradient and Significance of  $V \cdot D = 4$ .

EX: Calculate the value of  $E - Sield$  inside the tragion bounded by  $V_1, V_2$ 
 $V_1 = V_2 = V_3$ 

Violating readount corrections.

3. Calculate the value of TXH ist the two Points given in the figure T ib T=HXV 60 to of , P, AXH=0. 1002 = QOON Find VD-VA B is increasing magnetic fied Consider E sinduard = 1V. Coverent = 100+900 = 1 m A.  $V_D - V_A = 0.9 \text{ V}$  Difference is  $V_D - V_A = -0.1 \text{ V}$ . Decause of non KVL holds for Greenvolus fields. KVL is as spl are of Foredays law.

5. Consider as flux take that coories Magnetic field intensity of H = Sin(wt). Find the value of E at Point 'as' as he shown in figure

VXE = dusin (wt)

alm an

DXE = - MOW GO (Ut)

apply stocker theorm

D(XE).ds

Monowhy gs

gE.dl = -Mo (FTOZ) Go wt

E (51121) = - mo (1105) gamp

E = - Mo Troop Go (wt)

E = -Mo Gos (w+) as