Quiz 5	谷虎洋
1. (a)	518370910020
Vo = & (uxB).dl	
$= \int_{2}^{1} (\hat{x} u \times \hat{z} \hat{B}_{o}) \cdot (\hat{y} dl)$	
$= -u \cdot B_0 \lambda  (V)$	
(b) $P = I^2R$ $I = \frac{V_0}{R} = \frac{-uB_0h}{R} \Rightarrow P = \frac{u^2B_0^2h^2}{R}$	
$(D)  f = IR  ,  I = R - R  \Rightarrow F = R$	(W)
(C) The mechanic power: $P = F u$	4 - 1
The magnetic force: $F = I \cdot f_c dlxB = I \cdot \int_{S'}^{L} dlxB$	$b = -\hat{\alpha} I B_0 h$
Since $I = -\frac{uB_0\lambda}{R} \Rightarrow F = \hat{x} \cdot \frac{uB_0^2}{R}$	
$\Rightarrow P = F \cdot u = u^3 B_0^3 h^3  \text{which is } 1$	the same as what
calculated	in (b)
2. $\mathcal{O} \nabla \times E' = \mathcal{I} \nabla \times H = \mathcal{I} \cdot \hat{\mathcal{I}} \omega \in E = -\hat{\mathcal{I}} \omega \mu \left( -\frac{E}{q} \right) = -\hat{\mathcal{I}} u$	ONH'
3 v.E' = n. vH = 0	
$Q \nabla H = -   \nabla E = 0$	
Therefore, the four equations do hotals for (E', H'.	F'H'
the solution	7 -> CB, 11 ) 15 dist
MC SUMIVIL.	