

1. (a) - Poloidal Larmor radius,  
See lecture 9
- (b) - Plasma beta, see lecture 10

2. - Solve the ohmic heating eq.  
- By reorganizing and integrating it  
- Remember all 3 tasks

4. No hints  
("RHS" = right-hand side)

3. (a) - The 2 relevant eqs,  
found, for example,  
on slide 10 of  
lecture 4. Note,  
total derivative!
- Think about what  
"uniform", "homogeneous"  
and "steady-state" imply
- (b) - Assume perturbation  
is in the same direction  
as the electron flow (1D problem)
- Fourier transf. eqs.
- (c) - No hints