





Problem T2. Gravitational waves (10 points)

Part A. Dipole radiation (2.4 points)	
i. (1.4 pts)	
P =	
$\lambda =$	
ii. (1 pt) Proof that $P_{gd} = 0$:	
Part B. Quadrupole radiation (7.6 points)	
i. (1 pt)	
$\omega =$	
w –	
ii. (0.8 pts)	
$P_{qg} =$	
- 49	
iii. (0.8 pts)	
$S = Kh_0^2$, where $K =$	
07	
iv. (1 pt)	
$h_0 =$	
v. (1 pt)	
$R_s =$	
vi. (1.5 pts)	
M =	
vii. (1.5 pts)	
L =	

