

Answers for HW assignment 4

/1/ 26 V

/2/ -8 V/m; 25 eV; 382,000; 11.6 MeV; 16 T/s

/3/  $\mu_0 n_l N_s A$

/4/ 50 H

/5/ L per unit length =  $\mu_0 d/w$

/6/ Calculate  $3.00 \times 10^8$  m/s

/7/ The current decreases exponentially

/8/  $12.6 \times 10^{-3}$  T m<sup>2</sup>

/9/ 5.8 ms