

## Electric Circuits (ES 220)

### Fall 2009

No	Assignment	Answers/Hints	Due Date
<b>1</b>	Assessment problems: 1.3, 1.4, 1.6 Problems: 1.13, 1.15, 1.17, 1.30	<b>1.3</b> → 4000 μC (consider $t = \infty$ ), <b>1.4</b> → for max value of current, set $di/dt = 0$ . Also use for finite value of $t$ , $e^{-\alpha t} \neq 0$ , i.e. $(1 - \alpha t) = 0$ <b>1.6</b> → consider $t = \infty$ , <b>1.17</b> → $P(1 \text{ ms}) = 3.1 \text{ mW}$ , $w(1 \text{ ms}) = 1.24 \text{ μJ}$ , $w(\text{total}) = 21.67 \text{ μJ}$	<b>09/15/2009</b>