



7.11
$$f$$
 $Jo \mu F$ $V_{c} = 100v$.

a) $Q = CV = (Jo \mu F)(100 v) = \frac{1}{2} J \pi C$

b) $Q = CV \rightarrow J \pi C = (S \mu F) V_{C} \rightarrow V_{C} = 400v$

c) $SO \mu C = (J \mu F) V_{C} \rightarrow V_{C} = 25v$

d) $W = \frac{1}{2} C V^{2}$
 $= \frac{1}{2} (Jo \mu F)(100v)^{2} \rightarrow [0.1]$

