

Electric Circuits

Answer Sheet – Homework Set 13

Questions beginning with ** do not have answers on this sheet.

NOTE! *It is possible your answers for current could have a different sign depending on how you draw or your label circuits where you have a choice.*

$$10e^{-4t} \text{ V}$$

$$96e^{-4t} \text{ V}$$

$$126.4 \mu\text{J}$$

$$0.208 \mu\text{s}$$

$$-6e^{-16t} \text{ V}$$

$$2.5e^{-4t} \text{ V}$$

$$1 \text{ A}$$

$$0.875 + 0.143e^{-2t} \text{ A}$$

$$20 \text{ mH}$$

$$1.2e^{-3t} \text{ A}$$

$$-11.2 \text{ mV}$$

$$6e^{-3t} \text{ V}$$

$$3 - e^{-\frac{9}{4}t} \text{ A}$$

$$96 \text{ V}$$

$$-4e^{-20t} \text{ V}$$

$$.001 \text{ s (or 1 ms)}$$

$$3.75 \text{ mH}$$

$$\frac{5}{8} \text{ L}$$

$$16 \text{ H}$$

$$-24.9 \text{ mW}$$

$$6.4 \text{ mH}$$

$$0.04(1 - 2t)e^{-2t} \text{ V}$$

$$16 \text{ k}\Omega$$

$$2 \text{ A}$$

