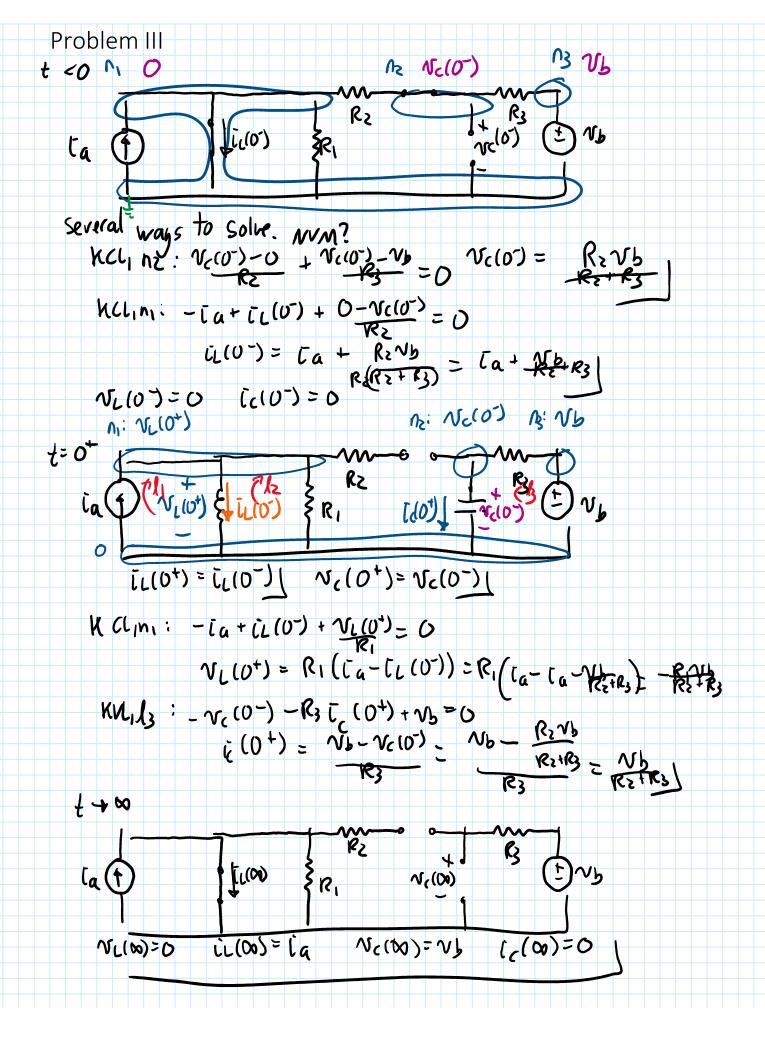
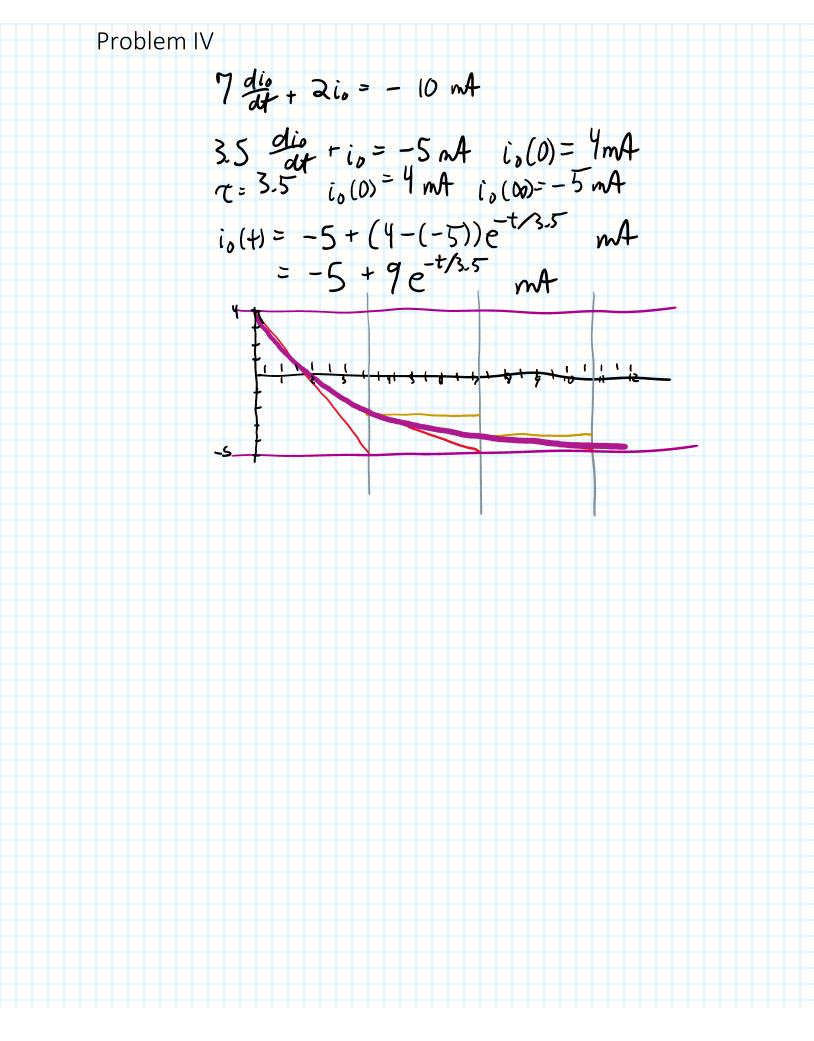
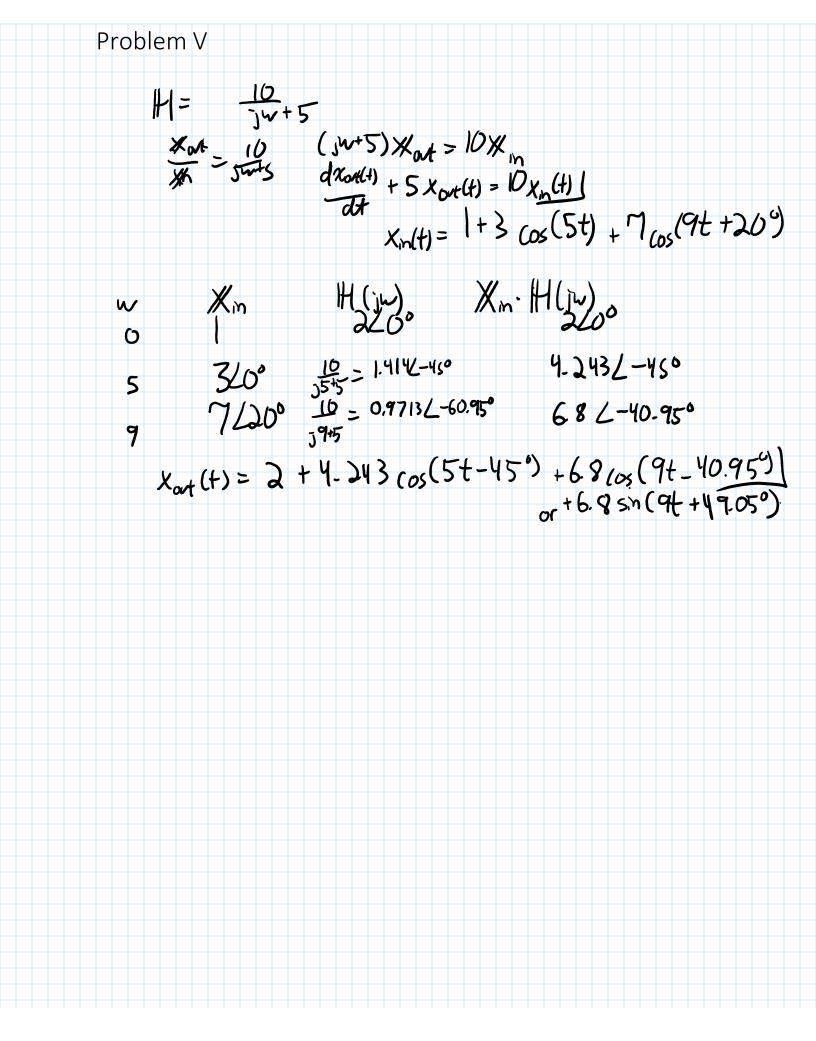


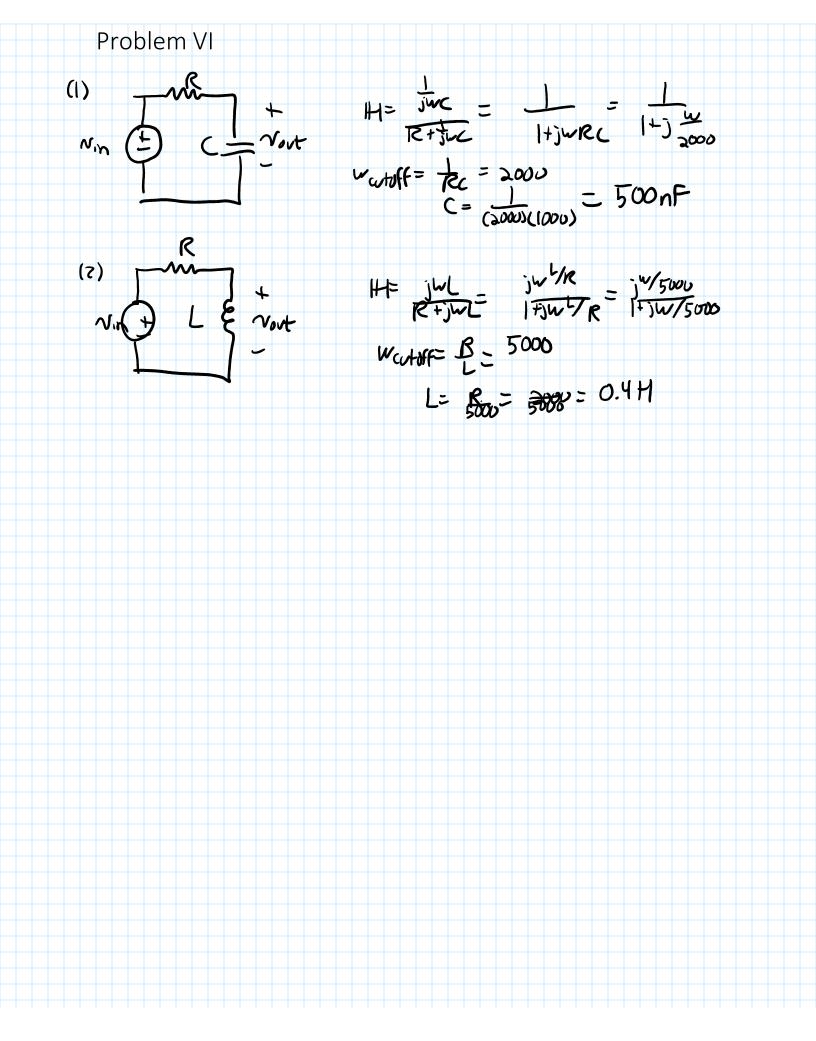
Problem II
(1) 40 mH || 20 mH =
$$\frac{1020}{10+30} = \frac{800}{50} = 155 \text{ mM} + 90\text{ mH} = 1033 \text{ mM}$$

(2) C in parallel add, so Cright = COONF
C in series add m inverse, so Celf = $\frac{1}{500} = 1263 \text{ mF}$
(3) $\frac{200}{50} \frac{102}{50} = \frac{100}{2000} = 2000$
 $Z_{RL} = 300 + 3100$ $Z_{CR2} = (-3500)(2000) = 495.12 - 75.98^{\circ}$
 $Z_{RL} + Z_{CR2} = 3252 - 12.53^{\circ} = 317.3 - 70.51.\Omega$
(4) D(SS $\frac{200}{500} = \frac{100}{5200} = 90.91 \text{ V}$
 $E = \frac{100}{5200} = 0.04546 \text{ A}$ $N_{C} = 100.2000 = 90.91 \text{ V}$
 $E = \frac{100}{5200} = 0.04546 \text{ A}$ $N_{C} = 100.2000 = 90.91 \text{ V}$
 $E = \frac{11}{5} \text{ Li}^{2} = 82.65 \text{ M}^{3}$ $E = \frac{1}{5} \text{ Cu}^{2} = 1.653 \text{ m}^{3}$









Problem VII
(1)
$$x(t) = 2r(t) - 4u(t-1) - 2r(t-2)$$

(2) $h(t) = 2u(t) - 2u(t-3)$
(3) $x(t) \neq h(t) =$
 $- 4g(t-3) + 8r(t-1) - 4g(t-2)$
 $+ -4g(t-3) + 8r(t-1) - 4g(t-2)$
 $+ 2e^{2} - 8t + 8g(t-1) - 4g(t-2)$
 $+ 2e^{2} - 8t + 8g(t-1) - 2e^{2} - 8t + 8g(t-3) -$

