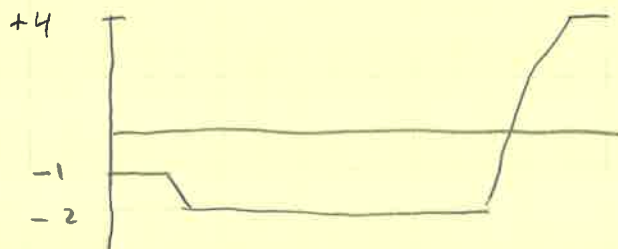
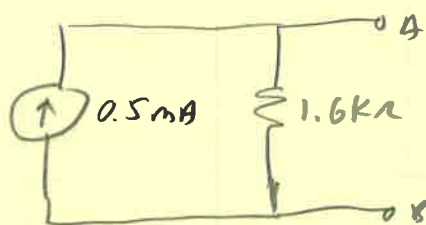


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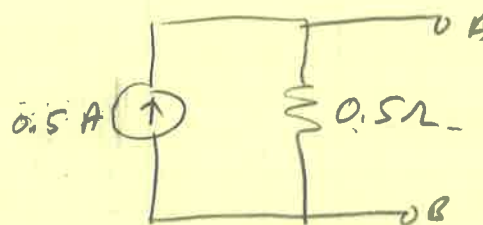
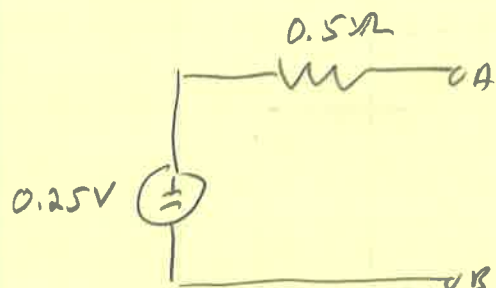
Problem 3:

Problem 4: $V_o = -(2000V_{in} + 1)$ ECE 209 - Exam #2 - 28 October 2014

Problem 1:

Part C: $1.6K\Omega$, $10^{-4}W$

Problem 2:



Problem 3: $V_{OUT} = -V_{IN}$

-5.0V	3V
-2.5V	2.5V
0	0
2.5V	-2.5V
5.0V	-3V

Problem 4: $V_{OUT} = 10V_{IN} - 0.45$

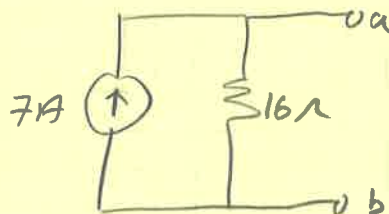
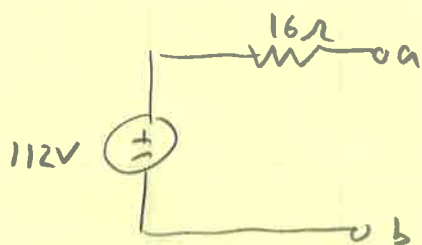
-1.0	-10
-0.5	-5.45
0	-0.45
0.5	4.55
1.0	9.55

Problem 5: $20\mu F, 5mH$

Problem 6: $V_R = 20 \cos(50t)$
 $V_L = -10 \sin(50t)$

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Problem 2:



Problem 3:

Problem 4: $V_{out} = 4V_{in}$

-4	-10
-2	-8
0	0
2	+8
4	+10

ECE 209 - Exam #3 - 3 April 2015Problem 1: $4\mu F$, $75mH$ Extra Credit Problem: $10\mu J$, $40\mu J$, $24mW$