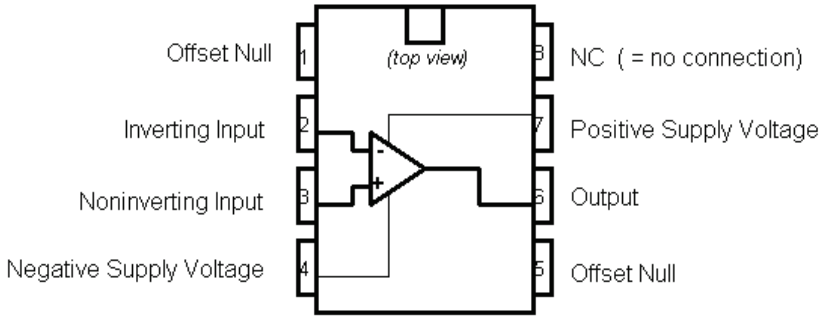
Name: _____

MUST 382 / EELE 491

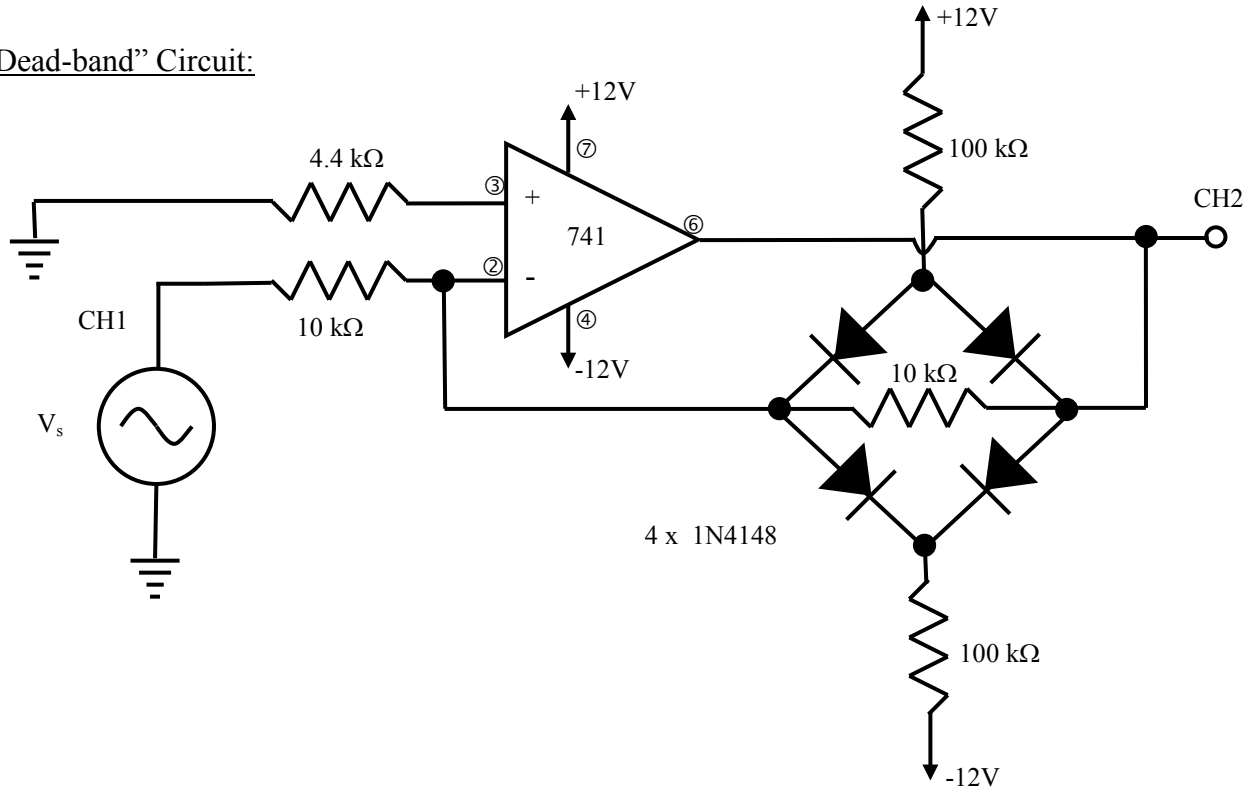
Spring 2014

Other circuits for experimentation

Using the bench power supply and your breadboard, carefully assemble the op amp circuit shown below. REMEMBER TO ASSEMBLE THE CIRCUIT WITH THE POWER OFF, then TEST and VERIFY the bench supply to make sure the voltages are correct BEFORE applying power to the circuit. Start with the function generator set for minimum output.

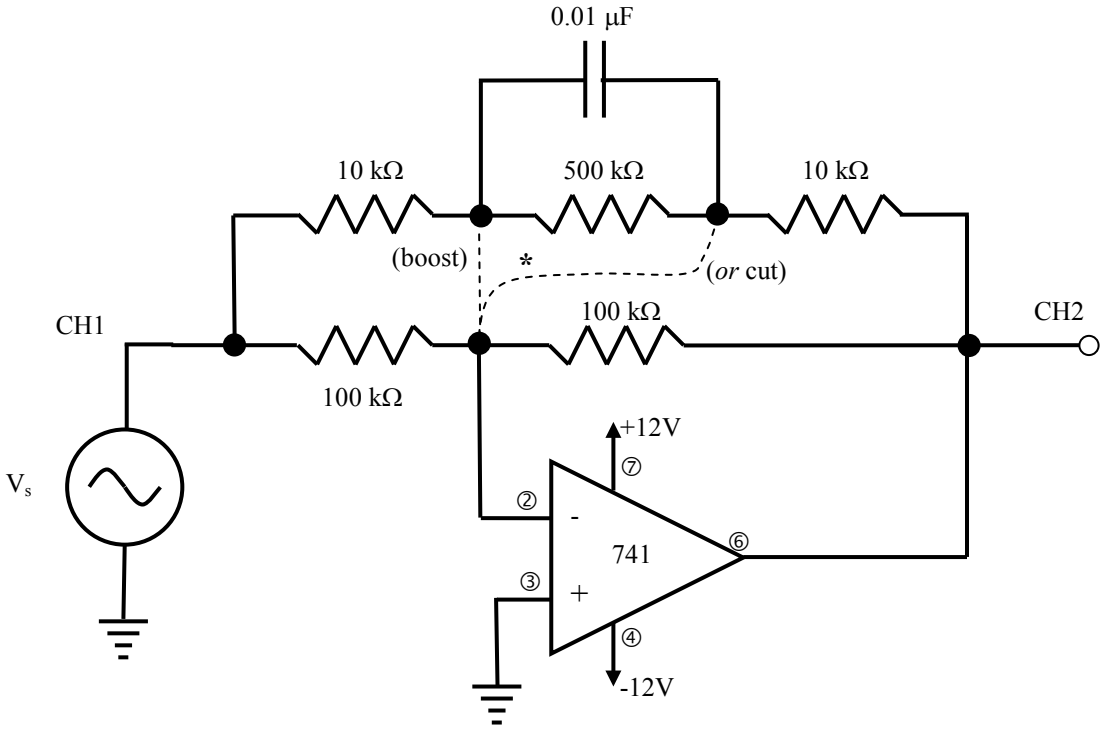


"Dead-band" Circuit:

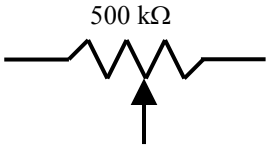


Start at about 100 Hz, 1 volt peak to peak. Gradually increase the amplitude and observe the changes in the output waveform.

Bass EQ (shelving) filter:



*(This is simulating the minimum and maximum positions of a 500kΩ potentiometer)



A wire connected from the inverting input on the op amp to the "boost" position will cause a low frequency gain increase.

Moving that wire to the "cut" position will cause a low frequency gain reduction.