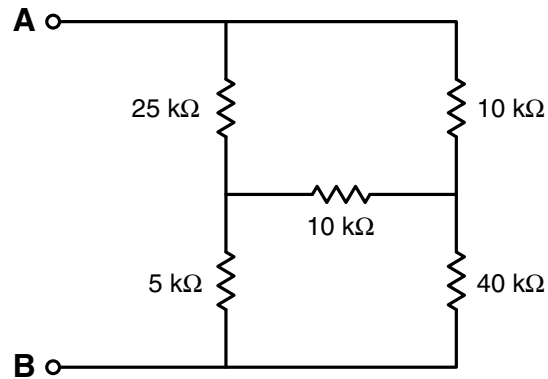


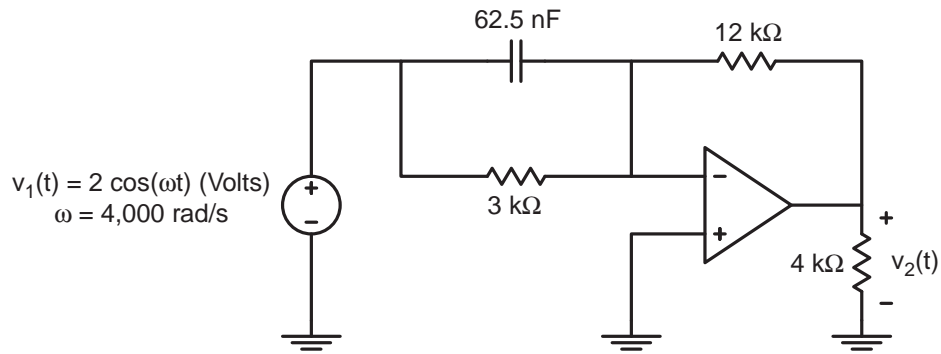
**Problem 1 (10 pts)**

Find the equivalent resistance between terminals A and B for the following circuit:



**Problem 2 (10 pts)**

You may assume that the op-amp in the following circuit is ideal.



Find an expression for the output voltage  $v_2(t)$ .