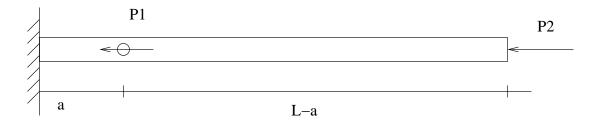
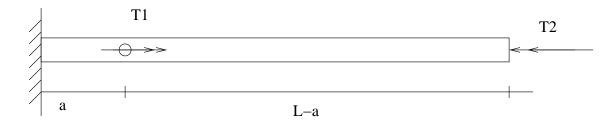
HW 10: Due Thursday April 14

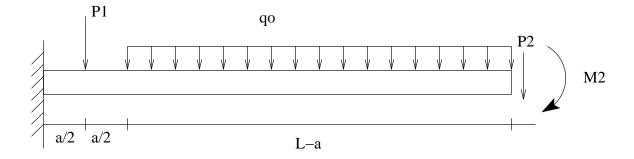
1. Write the virtual work statement for the following system. Make sure to define the solution space S and the test function space V.



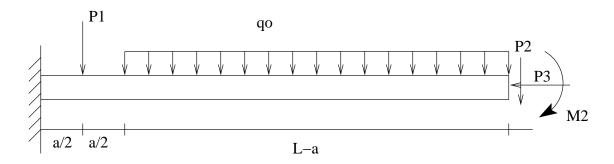
2. Write the virtual work statement for the following system. Make sure to define the solution space \mathcal{S} and the test function space \mathcal{V} .



3. Write the virtual work statement for the following system. Make sure to define the solution space \mathcal{S} and the test function space \mathcal{V} .



4. Write the virtual work statement for the following system. Make sure to define the solution space \mathcal{S} and the test function space \mathcal{V} . Hint: virtual work expressions are additive like real work.



5. For the configuration shown, derive the virtual work equation starting from $(d^2/dx^2)M=q.$

