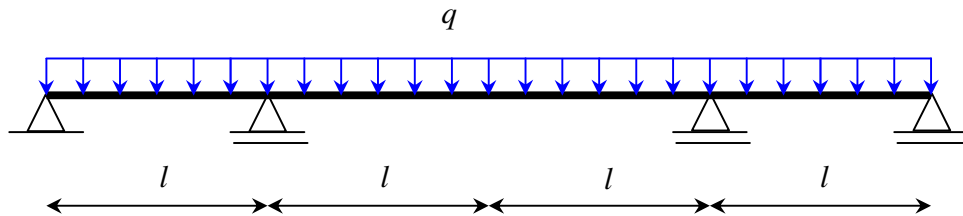


EXTRA ASSIGNMENT WORK and ENERGY METHODS



Problem:

- Find with Castigliano's theorem the expression for the support reactions of the static indeterminate beam as shown.
- Assume a displacement field and find the support reactions based upon the principle of minimum potential energy.
- Find the force distribution in this beam based on the classical force-method and compare the previous solutions.