SHH

Р

k A

В

One rigid element with a length of l is subjected to a compressive load at its tip. At the bottom, the element is supported by a simple hinge and a rotational spring with constant k.

- a) Determine the total potential energy of the system.
- b) Determine the buckling load as a function of rotational angle.
- c) Find the bifurcation point.
- d) Determine the primary and secondary paths.
- e) Check the paths in terms of being stable or unstable.





