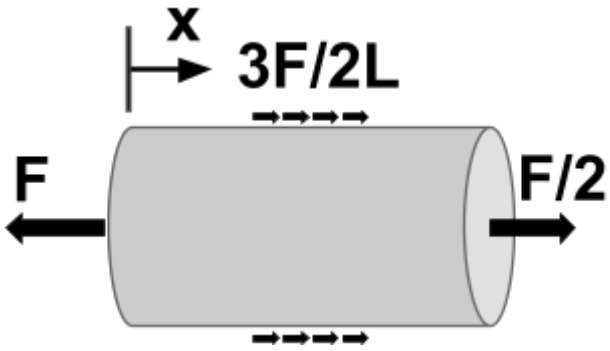

Draw and clearly label the following 5 graphs for the axially loaded object in terms of F, L, A, and E : 1) the applied distributed load; 2) the internal axial load; 3) the normal stress; 4) the normal strain; and 5) the deformation.

The graphs should model a cylindrical object of length L, as shown in the figure. There are concentrated forces of F at x=0 and of F/2 at x=L. There is also a uniform distributed force of 3F/2L N/m from ⅓ L to ⅔ L. A is the area of the object's circular cross sections, and E is the Young's modulus of the object's material.