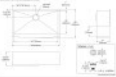


QUESTION

1. A rectangular frame is supported by a pin support at the bottom left corner and a roller support at the bottom right corner. The frame is subjected to a uniformly distributed load of 10 kN/m acting vertically downwards on the top horizontal member. The dimensions of the frame are 4 m in height and 6 m in width. Determine the reaction forces at the supports and the internal forces (axial force, shear force, and bending moment) at the midpoint of the right vertical member.



ANSWER