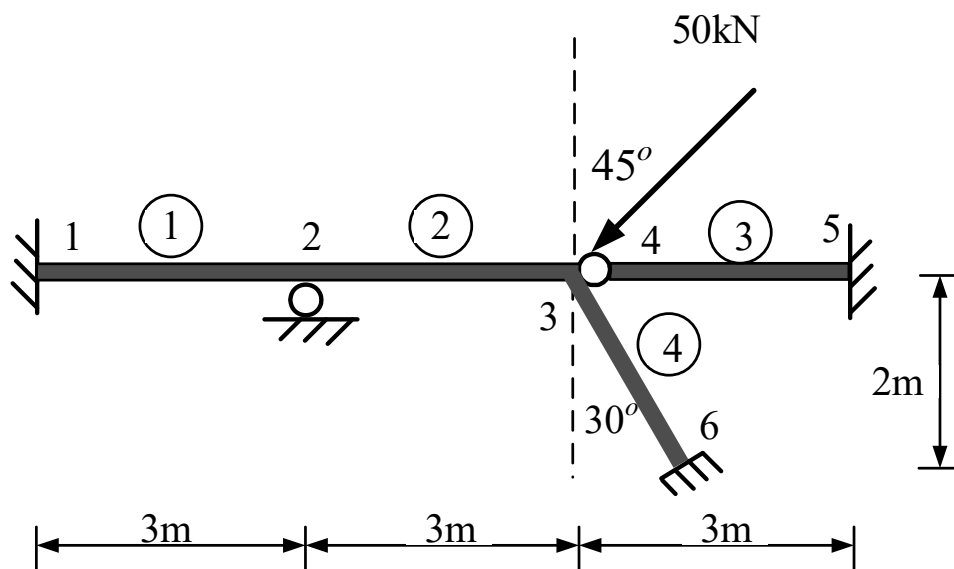


1. Code your FRAME17 as stated in FRAME17.m file.
2. Prepare an input file for the structure below and test your program. Note that members 2 and 4 are rigidly connected and member 3 is pinned with them.



Material properties:

Members 1 and 3:  $E=160 \text{ GPa}$ ,  $\nu = 0.3$

Member 2:  $E=80 \text{ GPa}$ ,  $\nu = 0.35$

Member 4:  $E=120 \text{ GPa}$ ,  $\nu = 0.25$

Cross-Sectional properties:

$A = 80 \times 10^4 \text{ mm}^2$  for members 1, 2 and 3

$A = 30 \times 10^3 \text{ mm}^2$  for member 4

$I = 25 \times 10^8 \text{ mm}^4$  for members 1, 2 and 3

$I = 90 \times 10^6 \text{ mm}^4$  for member 4