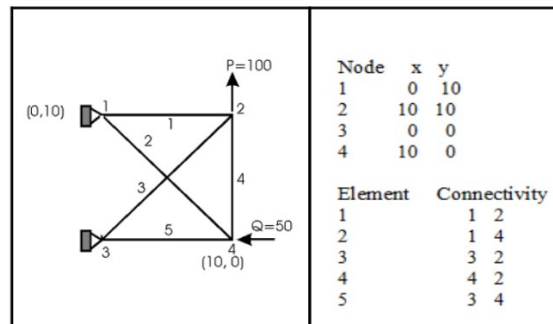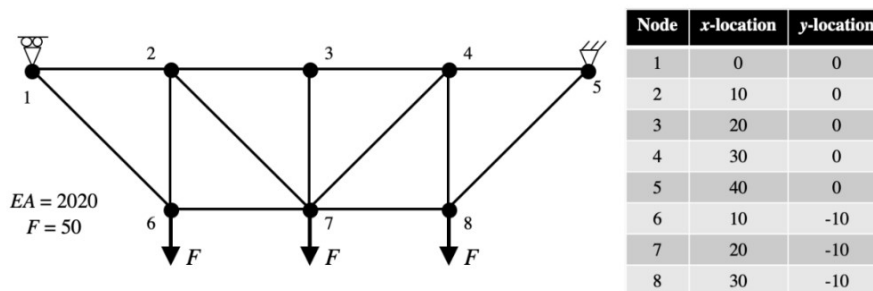# PROBLEM 1

1) From JW notes, Chapter 4, p. 14; refer thereto for full support and solutions *but obviously print/report your own results*. Note that $A = 0.2$.

Node	x	y
1	0	10
2	10	10
3	0	0
4	10	0

Element	Connectivity	
1	1	2
2	1	4
3	3	2
4	4	2
5	3	4

$EA = 2000.$

PROBLEM 2

2) Consider the following bridge-like structure. Note that $A=1$.

$EA = 2020$
$F = 50$

Node	x-location	y-location
1	0	0
2	10	0
3	20	0
4	30	0
5	40	0
6	10	-10
7	20	-10
8	30	-10

PROBLEM 3

3) Consider the following beam-like structure.

$E = 2003$ MPa
$A = 1$ mm^2
$I = 1/12$ mm4
$F = 50$ N

Node	x-location (mm)	y-location (mm)
1	0	0
2	10	0
3	20	0
4	0	-10
5	10	-10
6	20	-10
7	5	-5
8	15	-5
9	25	-5