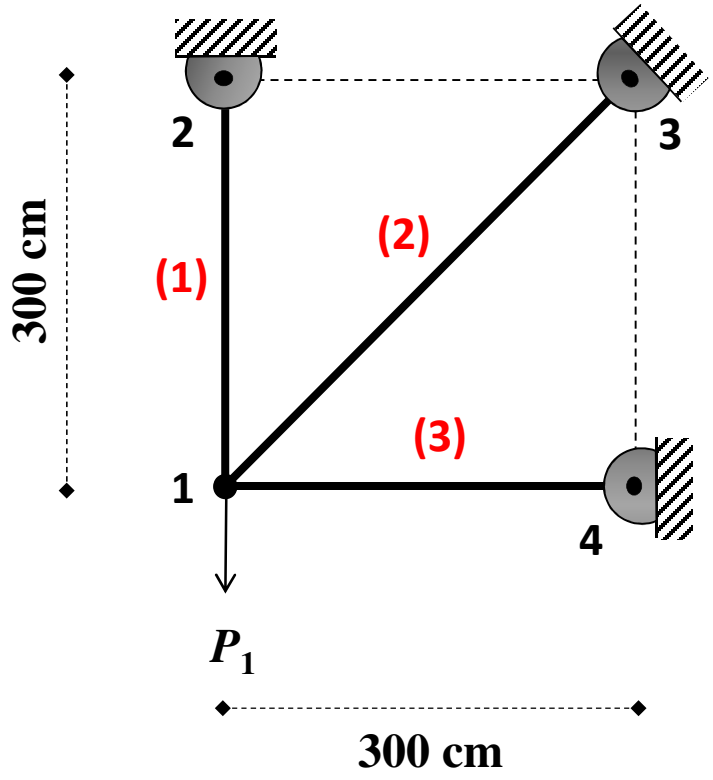
Day 2: Problem 1 (Tutorial)

To find axial (a) forces, (b) stresses and (C) displacements in 2D truss systems



Applied Load

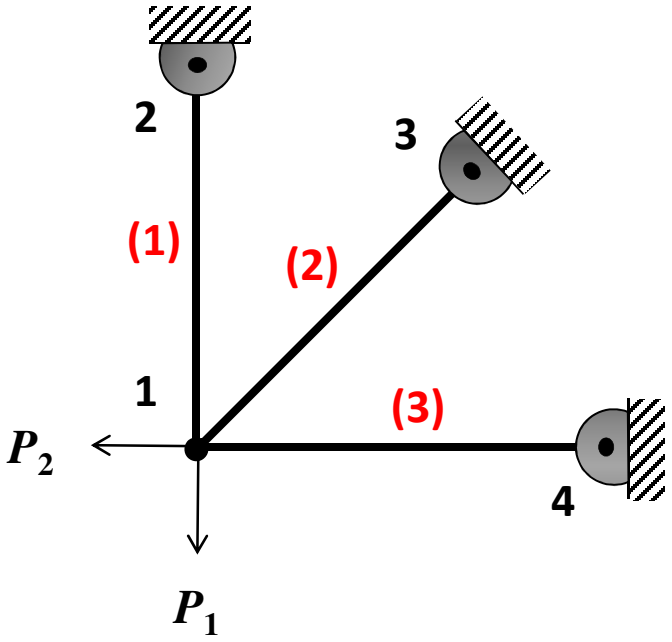
$P_1 = -10000$ N

$E = 2.1 \times 10^{11}$ N/m^2

$A = 2.0 \times 10^{-4}$ m^2

Day 2: Problem 2 (Home work)

To find axial (a) forces, (b) stresses and (C) displacements in 2D truss systems



$L_1 = L_2 = L_3 = 3$ m

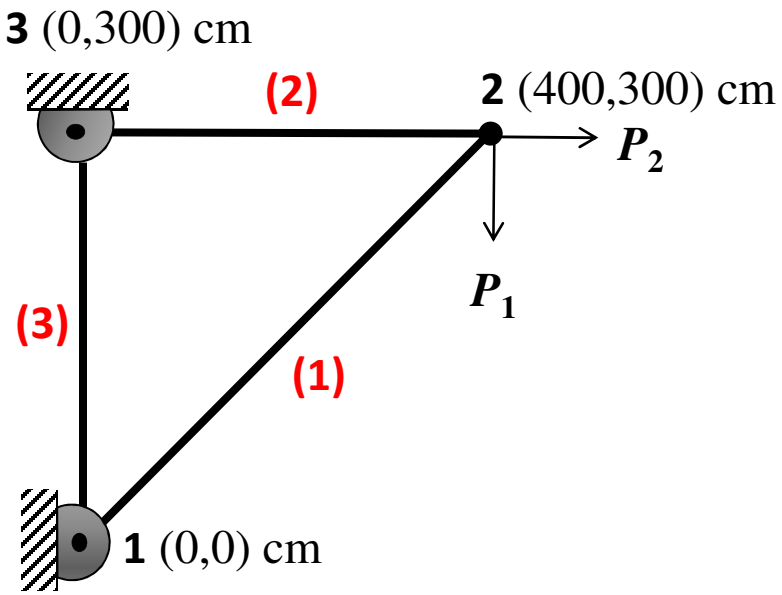
Applied Load

$P_1 =$ 20000 N
$P_2 =$ 10000 N

$E = 2.1 \times 10^{11}$ N/m^2
$A = 4.0 \times 10^{-4}$ m^2

Day 2: Problem 3 (Home work)

To find axial (a) forces, (b) stresses and (C) displacements in 2D truss systems



Applied Load

$P_1 =$ 10000 N
$P_2 =$ 10000 N

$E = 2.1 \times 10^{11}$ N/m^2
$A = 10.0 \times 10^{-4}$ m^2