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MTE 204 - Project 1a Submission Document
Group #16
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///*********************************
/// SOLUTIONS TO Problem 1a - 2016
///*********************************
/// Calculated Forces (N)
FA = 2630.000000, FB = 600.000000
FC = 380.000000, FD = 3550.000000
/// NODAL POSITIONS (mm)
U1x =
         0.00000, U1y =
                          0.00000
U2x =
         0.00117, U2y = -0.00235
U3x =
         0.00263, U3y = 0.00000
         0.01183, U4y = -0.00145
U4x =
/// NODAL FORCES (Newtons)
F1x = -2330.00000, F1y = -2017.77238
F2x = -300.00000, F2y = -519.61524
F3x = -0.00000, F3y = 2537.38762
F4x = 2630.00000, F4y = -0.00000
/// Element Stresses (MPa)
/// ID, Node 1, Node 2, STRESS[MPa]
1, 1, 2, 0.466004 [Tension]
2, 1, 4, 0.931988 [Tension]
3, 2, 4, 0.207861 [Tension]
4, 2, 3, 0.586004 [Tension]
5, 3, 4, 1.171972 [Compression]
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