

3D4 Structural Analysis and Stability 2010-2011
Answers

1. a) $11.369R^3t$, $1.197R^3t$, 64.1°
c) $1.8474\rho gL^2/R$
2. a) Kinematical = 1, Statical = 4 (Other answers possible if well-argued).
b) BA -33kNm, BC 9kNm, BD 24kNm
3. c) i) $0.6325L$
ii) 0.0113 , -0.0033
4. b) ii) 91.7kNm
iii) 60.8kNm