

Answers to Selected Problems: Chapter 2

2.2

1. $F_{\text{cable}} = 31.4 \text{ kN}$, $F_{\text{rope}} = 56.4 \text{ kN}$
2. 150 N
3. $10g / \sqrt{3} \approx 56.6 \text{ N}$

2.3

3. $F = 600 \text{ N}$, $R_{xC} = 1000 \text{ N}$, $R_{yC} = F$
4. $M = -6.25 \text{ Nm}$, i.e. clockwise. Anywhere.