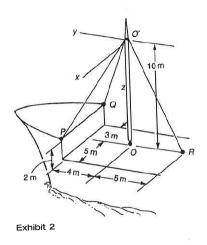
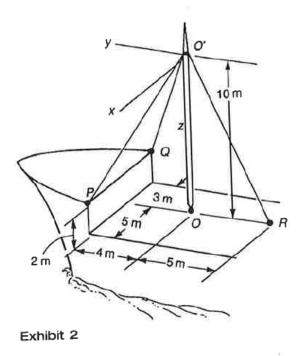
FE Review - Solid Mechanics - Statics Review of vector mechanics and loads analysis



Outline:

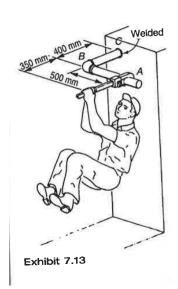
- Introductory Concepts in Mechanics
- \bullet Vector Geometry and Algebra
- Force Systems
- Equilibrium
- Trusses
- Couple-Supporting Members
- Systems with Friction
- Distributed Forces

• Example 1:



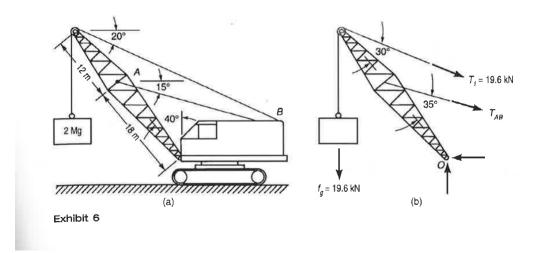
- 1. Determine the lengths of the guylines O'P and O'Q and the angle between them.
- 2. Suppose the guy line O'P has a tension of 800N. What is the moment from this force about O?

• Example 2:



- 7.13 The plumber in Exhibit 7.13 exerts a vertical downward force of 1 kN on the wrench handle. The moment about C of this force has a magnitude of
 - a. 500 Nom
- c. 900 N•m
- b. 750 N•m
- d. 1250 N•m

• Example 3:



1. Neglecting all loads except the 2Mg load, find the tension in cable AB.