

**Textbook:** Frank M. White.

**Chapter:** 1.

**Problem Numbers:** 8, 12, 20, 31, 32, 43, 45, 46, 47, 70, 82, 83, 84. Hint: In Prob. 1.32, the volume of a prolate spheroid is  $\frac{2}{3}\pi R^2 L$ .