For all of these problems, I would like you to state the problem (in your own words), draw any appropriate figures or diagrams, and state your answers in the form of a complete sentence!

Please make a concerted effort to solve these problems symbolically, leaving numbers out until the very last step! Again, this approach may seem harder at first, but the sooner you adopt this technique the better off you’ll be.

Book Problems: Chapter 10, # 26, 30, 47, 55

1. (Extra Credit, +3). Determine the moment of inertia of a cone of mass M, height H, and radius R, rotating around its axis of rotational symmetry.