P1.3-1)[fe] What is the force of gravitational attraction between two 500-mm diameter spheres 1.5 ft apart? The mass of one sphere is 3 slugs and the mass of the other is 5 slugs.

Given:

Find:

Solution:

What is the Gravitational Constant?

$G =$ _____ N m²/kg²

Find the force of attraction. (Show your work)

a) $F = 3.4 \times 10^{-7}$ lb   b) $F = 2.3 \times 10^{-7}$ lb   c) $F = 0.7 \times 10^{-7}$ lb   d) $F = 2.1 \times 10^{-7}$ lb