

MSC 1012 questions for Chapter 3 set 3

Newton's law of Gravity. ($G = 6.67 \times 10^{-11} \text{ m}^3 \text{ kg}^{-1} \text{ s}^{-2}$)

NAME _____

- 1) The distance between the center of the earth to the center of the moon is 3.84×10^5 km. The mass of the moon is 7.35×10^{22} kg and the mass of the earth is 5.97×10^{24} kg. What is the gravitational force (pull) between them?

ANS: _____

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1) $1.98 \times 10^{20} \text{ N}$