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Solution: Given:  $T_n = \pi / \omega_n = 0.5$  sec (a)  $k T_n^3 = 2m + 50g/k = 0.75$  sec (b) 1. Determine the weight of the table. Taking the ratio of Eq. (b) to Eq. (a) and squaring the result gives  $2 \sqrt{0.75} | T_n | m = +50g \Rightarrow | T_n | = 2.25$

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