Physics 101 Quiz # 6 Chapter 9

Name:

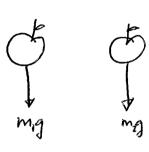
Solution

Id:

Sec. #:

1. If you drop two apples side by side from a bridge at the same time, what is the acceleration of the center of mass of the two-apple system?

$$\vec{F_1} = -mg \hat{j}$$
 ; $\vec{F_2} = -m_2 g \hat{j}$



2. If you delay dropping one of the two apples by one second, what is the acceleration of the center of mass of the two-apple system while both are falling?



