1.

A 500-g piece of clay hits a stone at 80 m/s and sticks to it. The clay momentum must change by

a) -40Ns.b) 40Ns.c) More data is needed to answer.

2.

Suppose the astronaut working on the Hubble telescope got himself completely loose of the shuttle and threw away a 2-kg hammer at 2 m/s. Could the astronaut remain at rest? If not, how fast would he be moving? How could he stop himself from drifting away?