

Dennis and Carmen are standing on the edge of a cliff. Dennis throws a basketball vertically upward, and at the same time Carmen throws a basketball vertically downward with the same initial speed. You are standing below the cliff observing this strange behavior. Whose ball hits the ground first?

A. Dennis' ballB. Carmen's ballC. Same

 $y = y_0 + v_0 t + \frac{1}{2} a t^2$ Dennis: $0 = H + v_0 t - \frac{1}{2} g t^2$

Carmen: $0 = H - v_0 t - \frac{1}{2} g t^2$

