

# ACT

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 is moving fastest when it hits the ground?**

A. Dennis' ball

B. Carmen's ball

C. Same

← Correct:  $v^2 = v_0^2 - 2g\Delta y$

