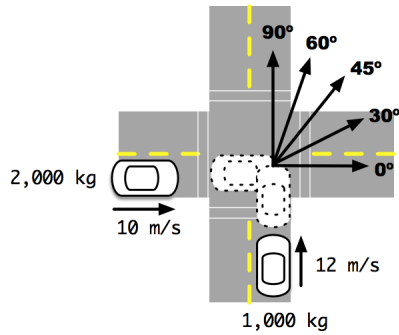


# Cycle 25 Momentum

## 4. Momentum Concepts

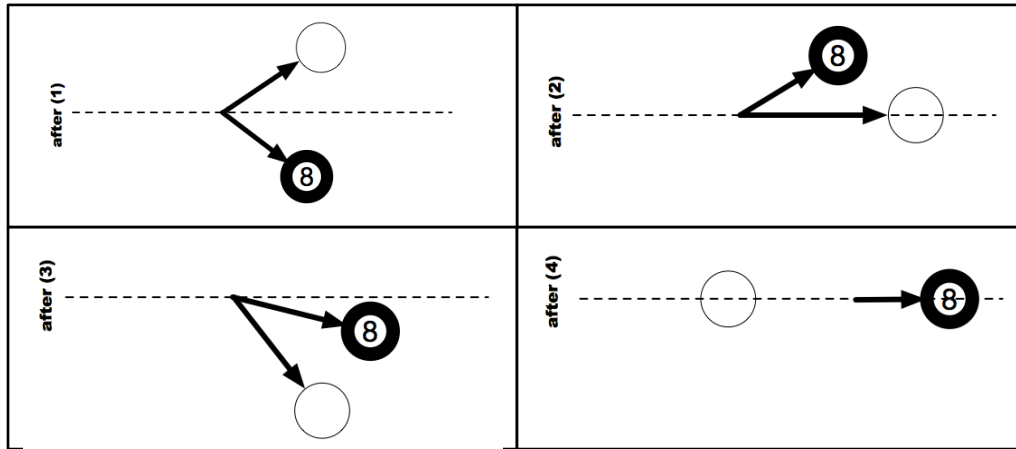
**FOR ALL PROBLEMS, ASSUME THERE ARE NO OUTSIDE FORCES**



1. The two vehicles collide and move together after the collision. Which path is the most likely direction of movement after the collision for the combined wreck? Explain.



2. The cue ball (white) is hit at the 8-ball (black) as shown. Of the four after-situations. For each after-situation, say whether it is possible or impossible and state why.



3. A water balloon was thrown and hit the sidewalk. Indicate with an arrow which direction the balloon must have been moving when it hit.

