### Key Terms

banked curve

curve in a road that is sloping in a manner that helps a vehicle negotiate the curve

centripetal force

any net force causing uniform circular motion

Coriolis force

inertial force causing the apparent deflection of moving objects when viewed in a rotating frame of reference

drag force

force that always opposes the motion of an object in a fluid; unlike simple friction, the drag force is proportional to some function of the velocity of the object in that fluid

friction

force that opposes relative motion or attempts at motion between systems in contact

ideal banking

sloping of a curve in a road, where the angle of the slope allows the vehicle to negotiate the curve at a certain speed without the aid of friction between the tires and the road; the net external force on the vehicle equals the horizontal centripetal force in the absence of friction

inertial force

force that has no physical origin

kinetic friction

force that opposes the motion of two systems that are in contact and moving relative to each other

noninertial frame of reference

accelerated frame of reference

static friction

force that opposes the motion of two systems that are in contact and are not moving relative to each other

terminal velocity

constant velocity achieved by a falling object, which occurs when the weight of the object is balanced by the upward drag force