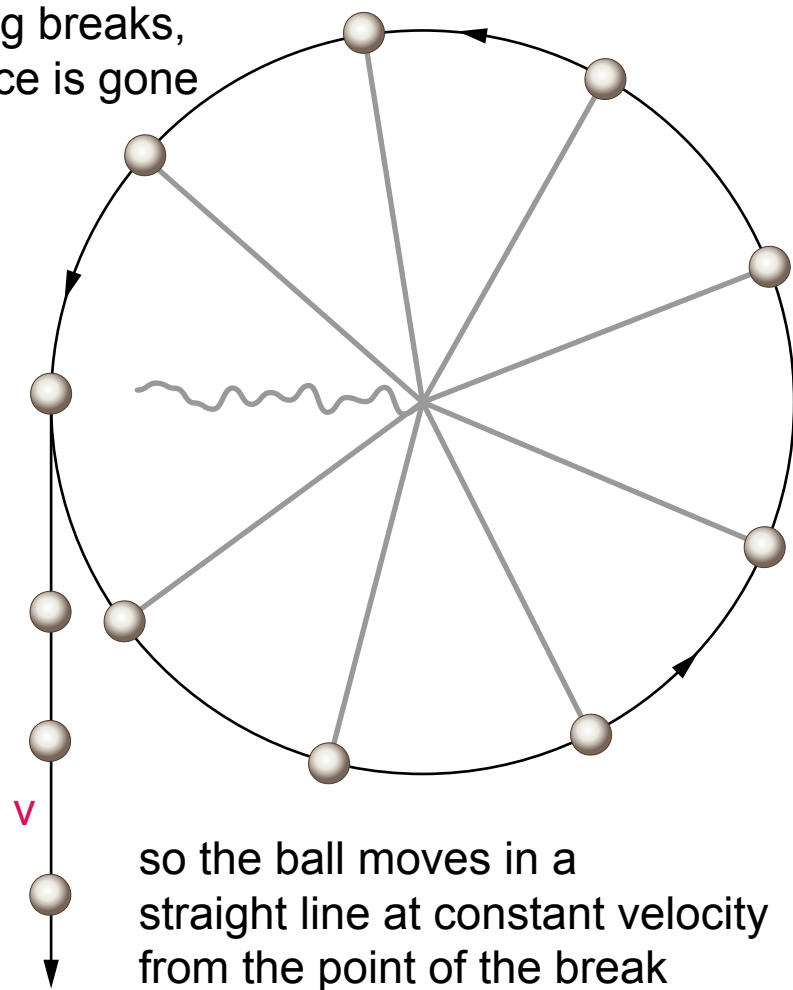


inward force along string
keeps ball moving in circle

when the string breaks,
the inward force is gone



so the ball moves in a
straight line at constant velocity
from the point of the break