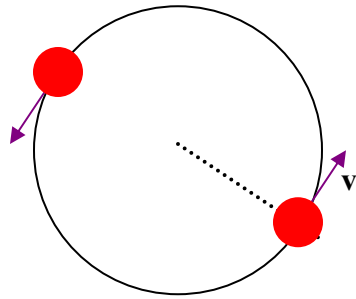
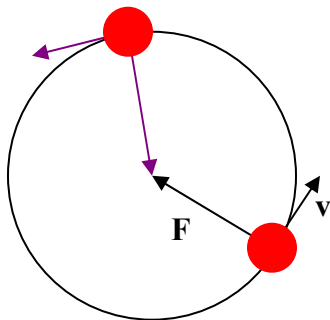


# Describing Circular Motion



- \* Is the ball moving in a uniform motion (*constant velocity*)?  
No, its direction is changing
- \* Is the ball accelerating?  
Yes, a change in velocity implies an acceleration
- \* Is there an non-zero force acting on the ball?  
Yes (*according to the Newton's 2<sup>nd</sup> Law*)
- \* What is the source of the non-zero force directly acting on the ball?  
The string
- \* What is the direction of the force?  
Along the string toward the center (Centripetal Force)



➔ **Circular motion is caused by a center-seeking force that causes a change in the direction of an object moving a fixed distance from the force center.**