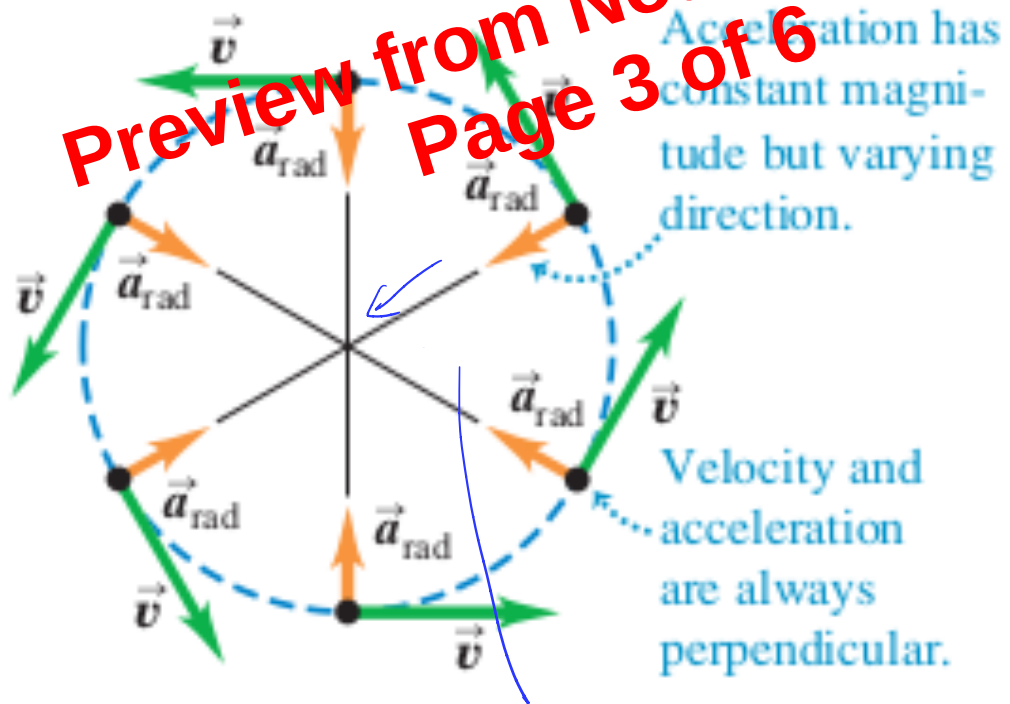


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Newton's second law applied to a particle in the uniform circular motion

$$|\vec{F}_c| = m \frac{v_T^2}{r} \quad |\vec{a}_c| = \frac{v_T^2}{r}$$