Uniform Circular Motion

Notes: \( \vec{F} \) and \( \vec{a} \) always point toward the center. \( \vec{a} \), \( \vec{F} \), and \( \vec{V} \) all have constant magnitude, but change in direction.

\[
F = \frac{m v^2}{r}
\]

\[
a = \frac{v^2}{r}
\]