

1 Hard to Measure Directly

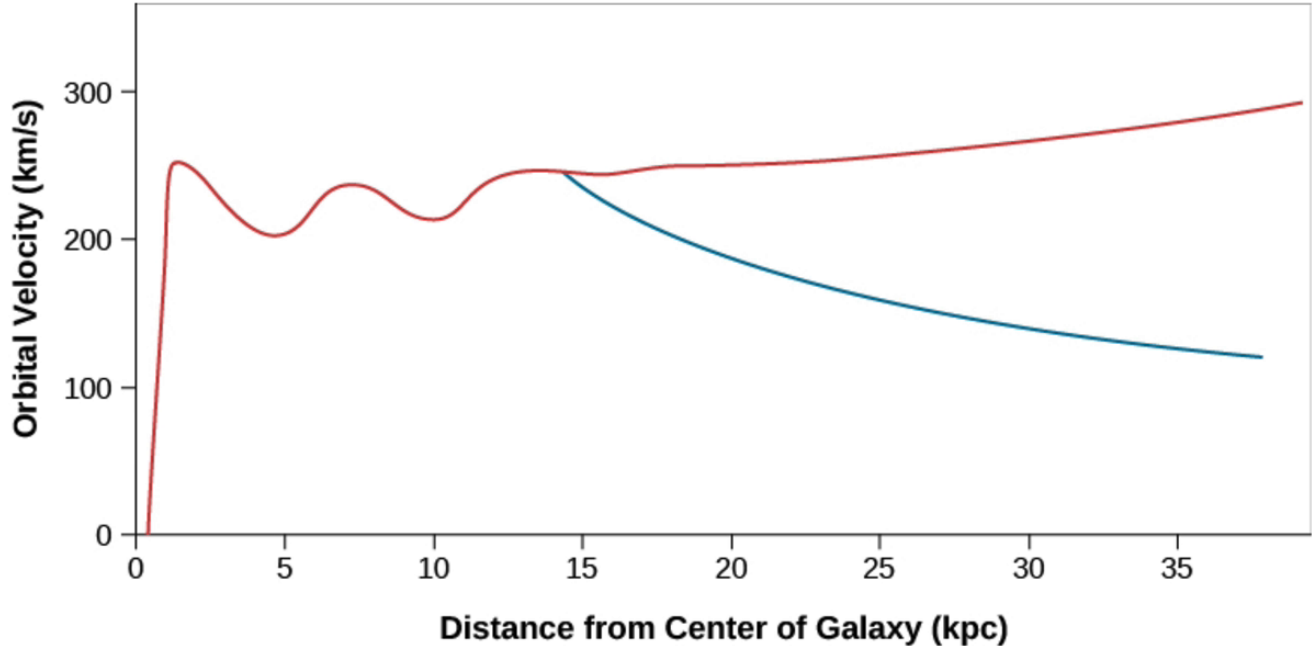
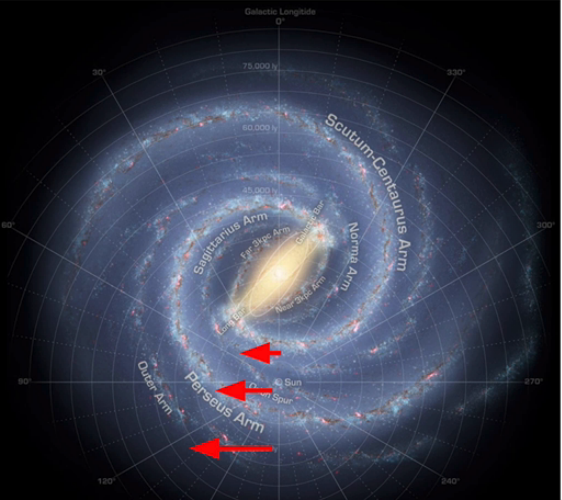
Mass of the Milky Way

3 Measure speed of rotation at different Radii



Can measure how fast things orbit

2 Kepler's Law: **Orbit** depends on **Mass**



From what we can see - It should drop off like **blue curve**

Mass of Galaxy ~ 2×10^{12} Solar Masses

Missing Mass is **Dark Matter**

~20x Greater than Mass we can see

