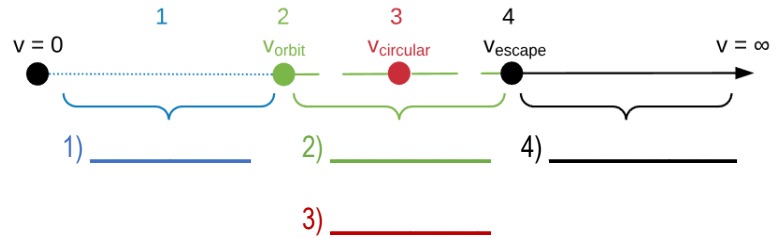
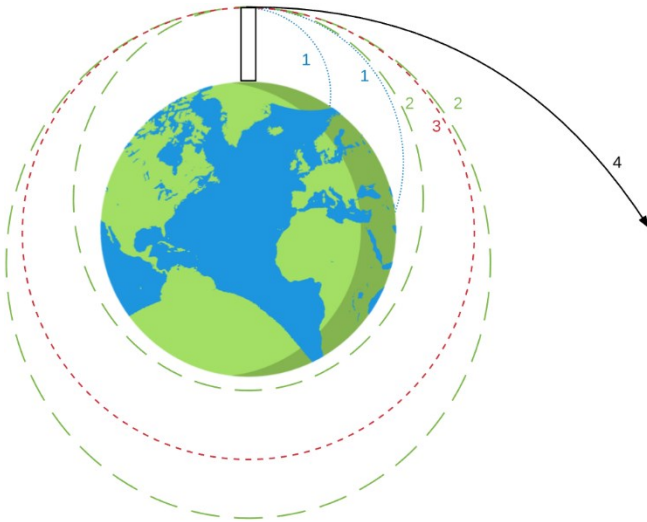


CONCEPT: Intro to Satellite Motion

- A satellite is any object that orbits another. Examples: (1) Moon around Earth (2) Earth around Sun.

- The shape of an orbit depends on its _____ and _____.



- These values change as _____ changes!

- Assume circular orbits (simpler), unless told otherwise.

EXAMPLE: You stand on a large tower while exploring a mysterious planet. From that height, the minimum speed to go around the planet without crashing is 2000m/s, the circular orbit speed is 5000m/s, and the escape speed is 10,000m/s. Predict the shape of the orbit for the following launch velocities: a) 1,500 m/s ; b) 4000 m/s ; c) 6,000 m/s ; d) 15,000 m/s

