Keplers Laws Activity   Andrew R. Romero

Sect 4

4. No, different distances

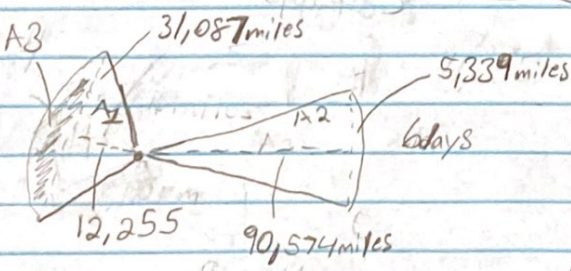5. They would be the same distance

Sect. 5

2. It goes off in a straight line.

3. It gets weaker

4. If shorter, the orbit becomes more elliptical. If longer, the planet escapes the stars gravity.

Sect 6

2. Mass does not affect the acceleration downward on Earth nor w/ the planets.

3.

$A1 = \frac{1}{2}(31,087)(12,255)$

$A1 = 1.9049 \cdot 10^8 \text{ miles}^2$

$A2 = \frac{1}{2}(5,339)(90,574)$

$A2 = 2.418 \cdot 10^8 \text{ miles}^2$

$A1/A2 = .79 =>$

A2 is 20% bigger than A1, however A1 does not account for A3.