## Exercise B3: <br> Johannes Kepler and Elliptical Orbits

Student name: $\qquad$ Class: $\qquad$ Date: $\qquad$
Check the box with the correct answer.
Question 1: What is the length of the major axis of Mars' orbit?a. 0.285 AUb. 1.381 AUc. 1.666 AUd. 3.047 AU

Question 2: What is the sidereal period of Mars using Kepler's Third Law?a. 0.15 yearsb. 1.88 yearsc. 2.14 yearsd. 5.32 years

Question 3: At what distance would a planet have to orbit the Sun on average in order to have a sidereal period of 10 years?a. 0.15 AUb. 1.88 AUc. 2.14 AUd. 4.64 AU

