## Physics 101Rec Quiz#1-Sect#05 Chapter 2

Name: Key Id: Sect: 05

Two cars A and B are at rest and are 600 m apart. They start moving at the same time in the same direction and along a straight line. Car A at the back moves with an acceleration of  $4.0 \text{ m/s}^2$  and car B in the front moves with an acceleration of  $1.0 \text{ m/s}^2$ .

a. How long will it take the faster car to overtake the slower car?

b. What is their position when car A undertakes car B?