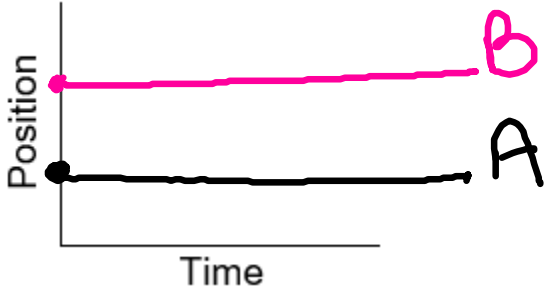


Understanding the position time graph

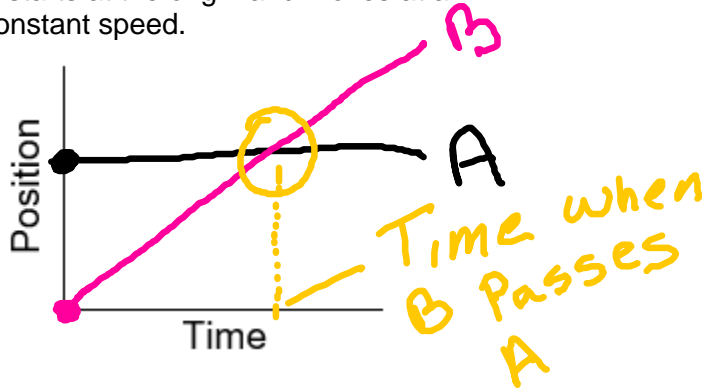
In each of the following cases there are two objects in motion (object A and object B). Construct a displacement time Graph for each of the scenarios listed below:

Note: All objects start at the origin unless noted otherwise

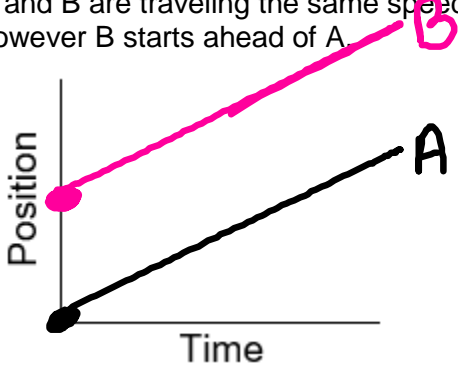
1. Neither object A or B are moving, however B is ahead of A.



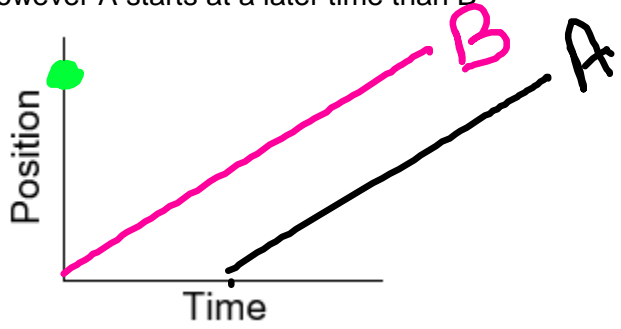
2. A is not moving but starts ahead of B while B starts at the origin and moves at a constant speed.



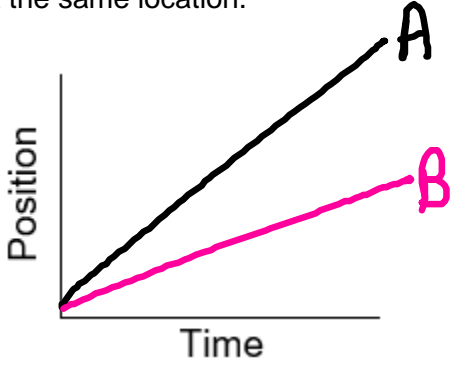
3. A and B are traveling the same speed however B starts ahead of A.



4. A and B are traveling the same speed, however A starts at a later time than B.



5. A is traveling faster than B and both start at the same location.



6. A starts at the origin moving at a constant speed & B starts ahead of A and moves toward A at a slower speed.

