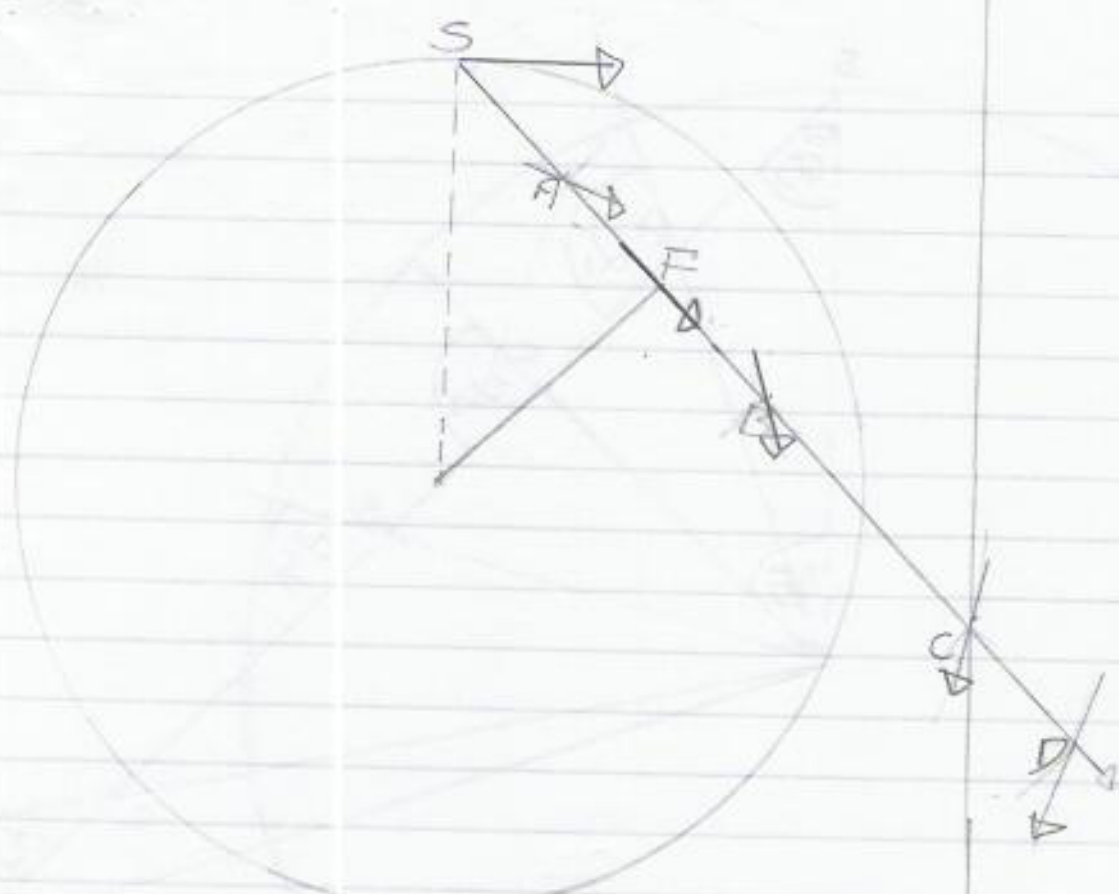


b)



4  
4

Assuming material at each point follows a circular orbit, velocity will be perpendicular to radius, or tangential to orbit (as shown).

c)



F  
B=A  
S  
C  
D

increasing speed ← decreasing!

It is given in the question that orbital speed decreases with increasing radius. Hence the list of the points in order of radial distance with shortest first will be identical with the order of speeds, with greatest first.

Yes but not consistent with

3  
4