1. The gear ratio if the pinion have 19-tooth is meshed with a 37-tooth gear, diametral pitch = 6 and pressure angle of 20º is:
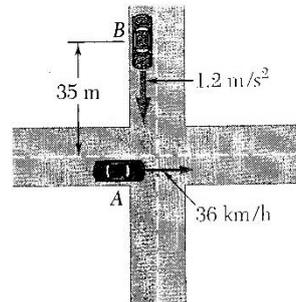
   A. 0.5135
   B. 1.947
   C. 6.167
   D. 3.167

2. The unit of the Kinematic viscosity is

A. Pa.s
B. m/s^2
C. m^2/s
D. Pa/s

3. The magnitude of the position of B relative to A in (m), 5 s after A crosses the intersection, is

Car A is travelling east at a constant speed of 36 km/h. As car A crosses the intersection shown, car B starts from rest 35 m north of the intersection and moves south with a constant acceleration of 1.2 m/s².	

   A. 47.383
   B. 53.851
   C. 61.478
   D. 42.144