1)

a) a=-0.4167 m/s^2

b) v=5m/s = 18 km/h

2)
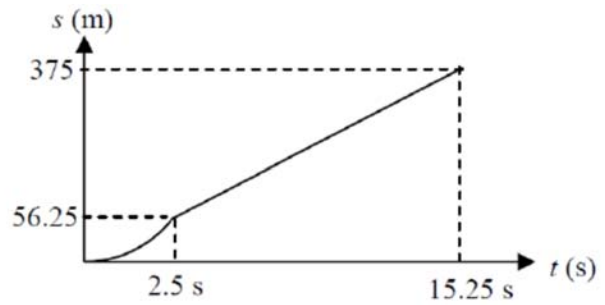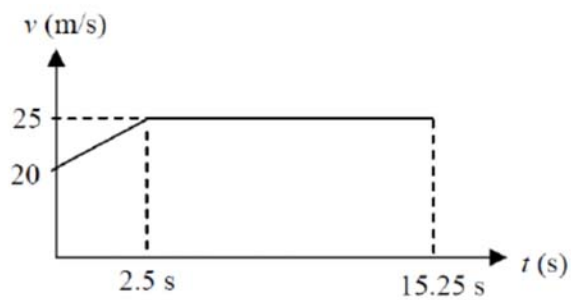
3)

a) d=2.40 m

b) t_{BC} =0.559 s , t_D = 2.06 s

4)

v_A = 19.4 m/s , t=4.54 s

5) h_C = 1079.1 m , R=2982.4 m

6)

a) v_B=2 m/s (↑),

b) v_D=2 m/s (↑),

c)$v_C/_D$ =-8m/s (↓)

7)

v_C= 2.21 m/s (↑)   , t=5.43 m/s

8)

$v_A/_B$= 120 km/h   , $a_A/_B$ = 4000km/h^2

9)

$v_A/_B$= 3.6 m/s^2

10)

$\mathbf{v}_W = 15.79$ km/h ⦨ 26.0° ◀

11)

a) a=10.20 mm/s²

b) t=25.2 s