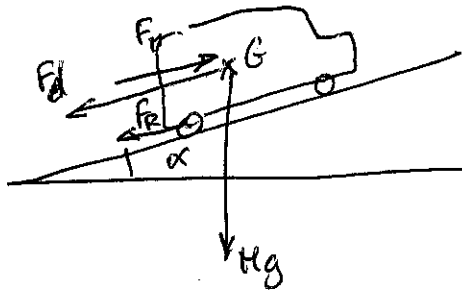


① 1.°



$$F_k = Mg \sin \alpha + F_d + F_r =$$

$$\frac{1}{2} \rho C_x S v^2 \quad C_{rr} Mg \cos \alpha$$

$\uparrow$   $\uparrow$   
 $100 \cdot 10^{-4}$

2.°

$$P = F_k v = a v + b v^3$$

$\uparrow$   $\uparrow$   
 $Mg \sin \alpha + C_{rr} Mg$   $\frac{1}{2} \rho C_x S$

$$v = 100 \text{ km/h}$$

$$= 27,8 \text{ m}\cdot\text{s}^{-1}$$

AN. :	puissance P	14,7 kW	11,46 kW	3,4 kW
	consommation	5 l/100 km	3,9 l	1,15 l
		$= \frac{P \times 3600}{35 \cdot 10^6 \cdot 0,3}$		

② 1.°

$$F_{acc} = H \frac{v^2}{R} = 1500 \times \frac{v^2}{35} = F_{prot} = Mg \cdot \mu^{0,5}$$

$$v = \sqrt{g \mu R} = 13,1 \text{ m}\cdot\text{s}^{-1} = 47 \text{ km/h}$$

2.°

$$\mu = \frac{v^2}{Rg} = 0,186$$