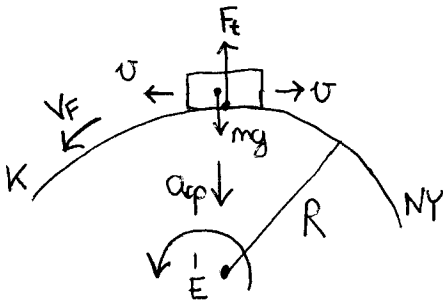


15.)  $v = 72 \frac{\text{km}}{\text{h}} = 20 \frac{\text{m}}{\text{s}}$   $m = 25 \text{t}$   $F_k \leq F_{NY}?$   $|F_{NY} - F_k| = ?$



$$a_{cp} = a_n = \frac{v^2}{R}$$

$$v_F = \frac{2R\pi}{T}$$

$$\vec{a} = \frac{\vec{F}_e}{m}$$

$$a = \frac{(v_F \pm v)^2}{R}$$

$$ma = F_e = mg - F_t$$

$$F_t = mg - ma$$

$$F_t \rightarrow F_k \text{ vagy } F_{NY}$$

$$F_k = mg - m \frac{(v_F + v)^2}{R}$$

$$F_{NY} = mg - m \frac{(v_F - v)^2}{R}$$

$$\underline{\underline{F_{NY} > F_k}}$$

$$F_{NY} - F_k = \frac{m}{R} (v_F^2 + 2v_F v + v^2 - v_F^2 + 2v_F v - v^2) = \dots$$