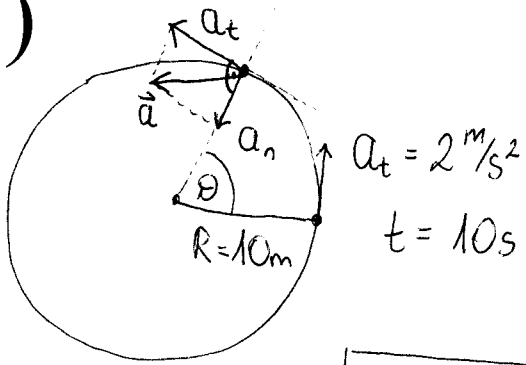


3.)



$v_k = ?$   $a = ?$   $\omega = ?$   $\beta = ?$   
 $s = ?$

$$v = v_k = a_t \cdot t$$

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

$$v = \omega R$$

$$a_t = \beta R$$

$$s = \frac{a_t}{2} t^2$$

$$a = \sqrt{a_t^2 + a_n^2}$$

(i)  $v = a_t \cdot t$

(ii)  $a_n = \frac{v^2}{R}$   $a_t = 2 \frac{\text{m}}{\text{s}^2} \Rightarrow a = |\vec{a}| = \sqrt{a_t^2 + a_n^2} = \sqrt{a_t^2 + \left(\frac{v^2}{R}\right)^2}$

(iii)  $\omega = \frac{v}{R}$

(iv)  $\beta = \frac{a_t}{R}$  szöggyorsulás

(v)  $s = \frac{a_t}{2} t^2$