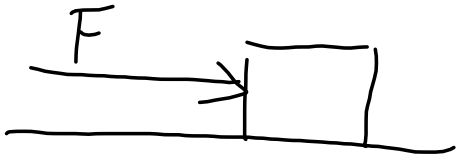


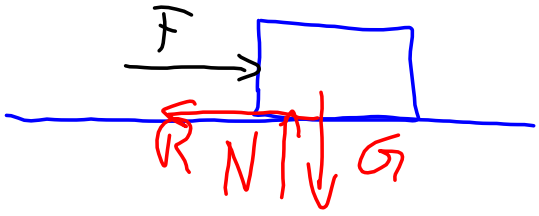
$\sum F = 0$ når v er konst

$\sum F = m \cdot a$

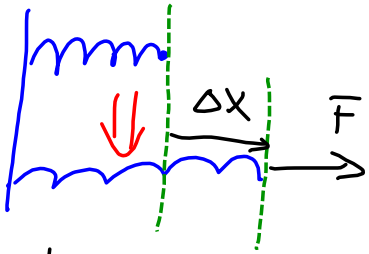
$F = -F'$

Tyngdekraften: $G = mg$

Friksjonskraften: $R = \mu \cdot N$

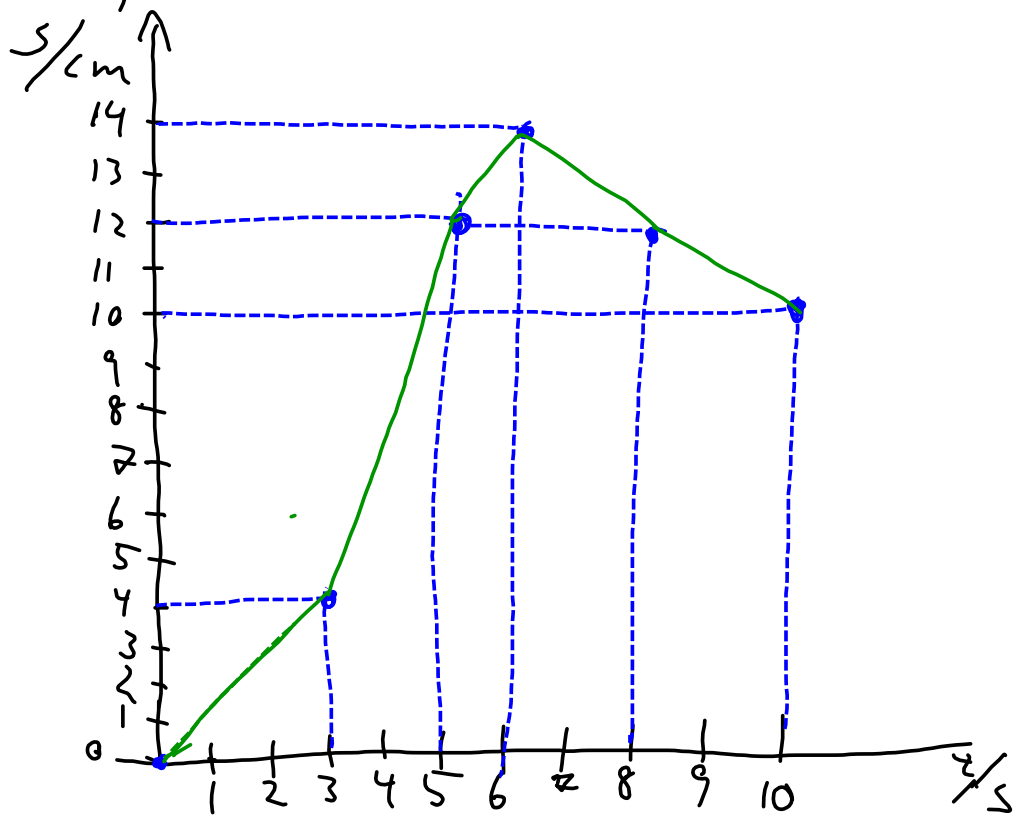


Fjærkraft:



$F = k \cdot \Delta x$ Hookes lov

1.309



b) $(0-3,0)[s]: \Delta s = s_3 - s_0 = 4,0 - 0,0 = 4,0\,[cm]$

$(3,0-5,0)[s]: \Delta s = s_5 - s_3 = 12,0 - 4,0 = 8,0\,[cm]$

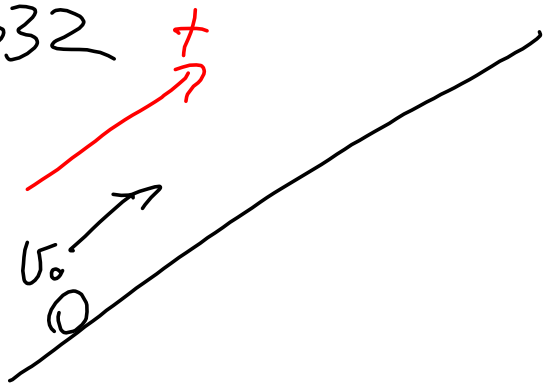
$(5,0-8,0)[s]: \Delta s = s_8 - s_5 = 12,0 - 12,0 = 0,0\,[cm]$

$(8,0-10,0)[s]: \Delta s = s_{10} - s_8 = 10,0 - 12,0 = -2,0\,[cm]$

c)

$4,0 + 8,0 + 2,0 + 2,0 + 2,0 = 18,0\,[cm]$

1.332



$v_0 = 5{,}0\ m/s$

$a = -2{,}0\ m/s^2$

b) $v = v_0 + a \cdot t = 5{,}0\left[\frac{m}{s}\right] + (-2{,}0) \cdot 1{,}0\left[\frac{m}{s^2} \cdot s\right]$

$= 3{,}0\left[\frac{m}{s}\right]$

c) $v = v_0 + at$

$0{,}0$

$a \cdot t = -v_0$

$t = \frac{-v_0}{a} = \frac{-5{,}0\left[\frac{m}{s}\right]}{-2{,}0\left[\frac{m}{s^2}\right]} = 2{,}5\,[s]$

d) $s = \frac{v_0 + v}{2} \cdot t = \frac{(5{,}0 - 0{,}0)}{2} \cdot 2{,}5 = 6{,}3\,[m]$