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| 1 | Ggb klarer ikke: LøsODE[ m v' +k v^2=0], så vi må bruke y. Også lurt å angi hva soi  |
| 2 | $v(t):=LøsODE[m y'+k y^2=0,y,t]$<br>$\approx v(t) := \frac{m}{k t + c_1 m}$  |
| 3 | $Løs[v(0)=v_1,c_1]$<br>$\rightarrow \left\{ c_1 = \frac{1}{v_1} \right\}$  |
| 4 | $v_s(t):=m/(k t+m/v_1)$<br>$\rightarrow v_s(t) := m \frac{v_1}{k t v_1 + m}$   |
| 5 | $Løs[v_s(dt)=v_2,dt]$<br>$\rightarrow \left\{ dt = \frac{m v_1 - m v_2}{k v_1 v_2} \right\}$                               |
| 6 | $1500/20*(1/(40/3.6)-1/(60/3.6))$<br>$\approx 2.25$  |
| 7 | $v_{\{tall\}}(t):=1500 \cdot 60/3.6 / (2.25 \cdot 60/3.6 t + 1500)$<br>$\rightarrow v_{tall}(t) := \frac{2000}{3 t + 120}$ |
| 8 | $s:=Integral[v_{\{tall\}},t,0,20]$<br>$\approx 270.31$   |
| 9 |  |