lördag 24 december 2022

$$m.V^{2}(t) = -5v^{2}$$
 $k = 5Ns^{2}/m^{2}$ $V(0) = 3$ $m = 2$

$$k = 5 N s^2 / m^2$$

$$V(0) = 3 \quad m = 2$$

$$2 \cdot \frac{dv}{dt} = -5v^2$$

$$\frac{2}{v^2} \cdot dv = -5 dt$$

$$\int \frac{2}{V^2} dV = -\int 5 dt$$

$$-\frac{2}{v} = -5 + + C$$

$$\frac{2}{5++C}=V$$

$$v(0) = \frac{2}{0+C} = 3$$
 $\frac{2}{3} = C$

$$V = \frac{2}{5+ + \frac{2}{3}} = \frac{6}{15+ 2}$$