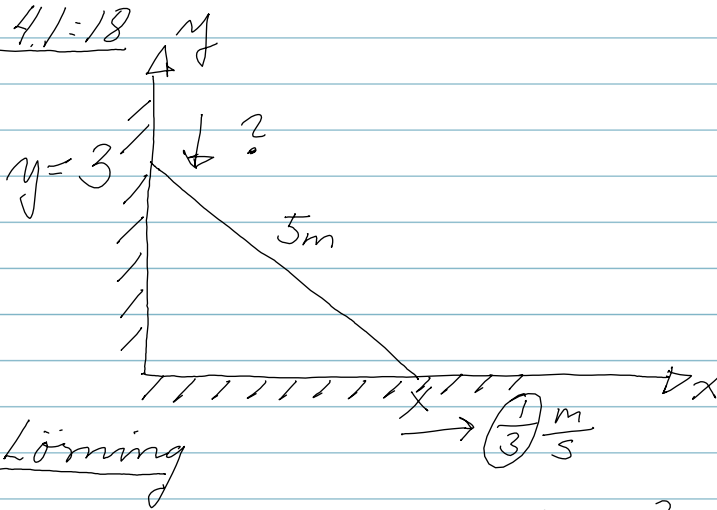


4.1-18



Lösung

$$\underline{x^2 + y^2 = 5^2}$$

$$0 = 2x \frac{dx}{dt} + 2y \frac{dy}{dt}$$

$$\Rightarrow \frac{dy}{dt} = - \frac{x \frac{dx}{dt}}{y}, \quad \underline{y=3} \Rightarrow \underline{x=4}$$

$$= - \frac{4 \cdot \frac{1}{3}}{3}$$

$$= - \frac{4}{9} \frac{m}{s}$$

swar $\frac{4}{9} \frac{m}{s}$