



$$\text{Vi vet } x(t_0) = 3, y(t_0) = \sqrt{5^2 - 3^2} = 4$$

$$x'(t_0) = 0,05.$$

Pyth. sats

$$x(t)^2 + y(t)^2 = 5^2$$

\Rightarrow

$$2x(t)x'(t) + 2y(t)y'(t) = 0$$

$$t = t_0: \quad 2 \cdot 3 \cdot 0,05 + 2 \cdot 4 \cdot y'(t_0) = 0$$

\Leftrightarrow

$$y'(t_0) = -\frac{0,3}{8} = -0,0375 \text{ m/s}$$

↑
"herät"