

2.84
14

$$y' = -m \sin x + 3 \cos x$$

nodent objekt $x = \frac{2}{3}\pi$ \rightarrow $\{1, 3\}$

$$0 = -m \sin\left(\frac{2}{3}\pi\right) + 3 \cos\left(\frac{2}{3}\pi\right)$$

$$0 = -m \cdot \frac{\sqrt{3}}{2} - \frac{3}{2}$$

$$\frac{\sqrt{3}}{2}m = -\frac{3}{2} \rightarrow m = -\frac{3}{\sqrt{3}} = -\sqrt{3}$$