

H₁ woodax

$$J = 0 + x + \left(-\frac{x^3}{2 \cdot 3} \right) + \frac{x^5}{2 \cdot 3 \cdot 4 \cdot 5} - \frac{x^7}{7!} + \dots$$

$$J = x - \frac{x^3}{3!} + \frac{x^5}{5!} - \frac{x^7}{7!} +$$

$$f(x) = f(0) + \frac{f'(0)}{1!} (x - 0) + \frac{f''(0)}{2!} (x - 0)^2 + \frac{f'''(0)}{3!} (x - 0)^3$$

suchen

$$h(x) = h(0) + \frac{1}{1!} x + \text{gut net } (h(0) = -\infty)$$

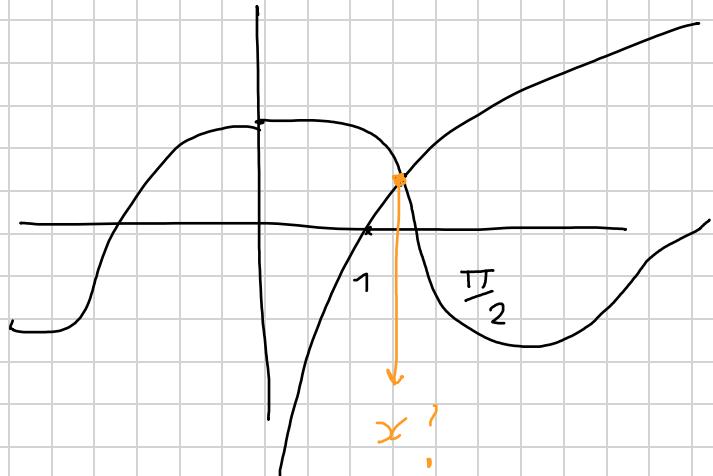
$$\begin{aligned} \sin(x) &= \sin(0) + \frac{\cos(0)}{3!} x^3 + \frac{\sin 0}{4!} x^4 + \\ &= x - \frac{x^3}{3!} \end{aligned}$$

H₂ woodax

$$h(x) = \cos(x)$$

1 mal pos-

$$\text{start } \left[1, \frac{\pi}{2} \right]$$



2
 mettung $\sqrt{3}$ walgs halveringsmethode toegestaan
 op $x^2 - 3$ na 4, stage vertrekend van $[1, 2]$

$$\left[\begin{matrix} 1 & 2 \end{matrix} \right] \quad f\left(\frac{3}{2}\right) = \frac{9}{4} - 3 < 0$$

$$\left[\begin{matrix} \frac{3}{2} & 2 \end{matrix} \right] \quad f\left(\frac{7}{4}\right) = \frac{49}{16} - \frac{48}{16} > 0$$

$$\left[\begin{matrix} \frac{7}{4} & \frac{3}{2} \end{matrix} \right] \quad f(1,625) < 0$$

$$\left[\begin{matrix} 1,625 & \frac{7}{4} \end{matrix} \right]$$

