

Ska Bengem

y-Achse: $1E \hat{=} 8.3 \text{ cm} \Rightarrow 1 \text{ cm} \hat{=} 0.12 E$

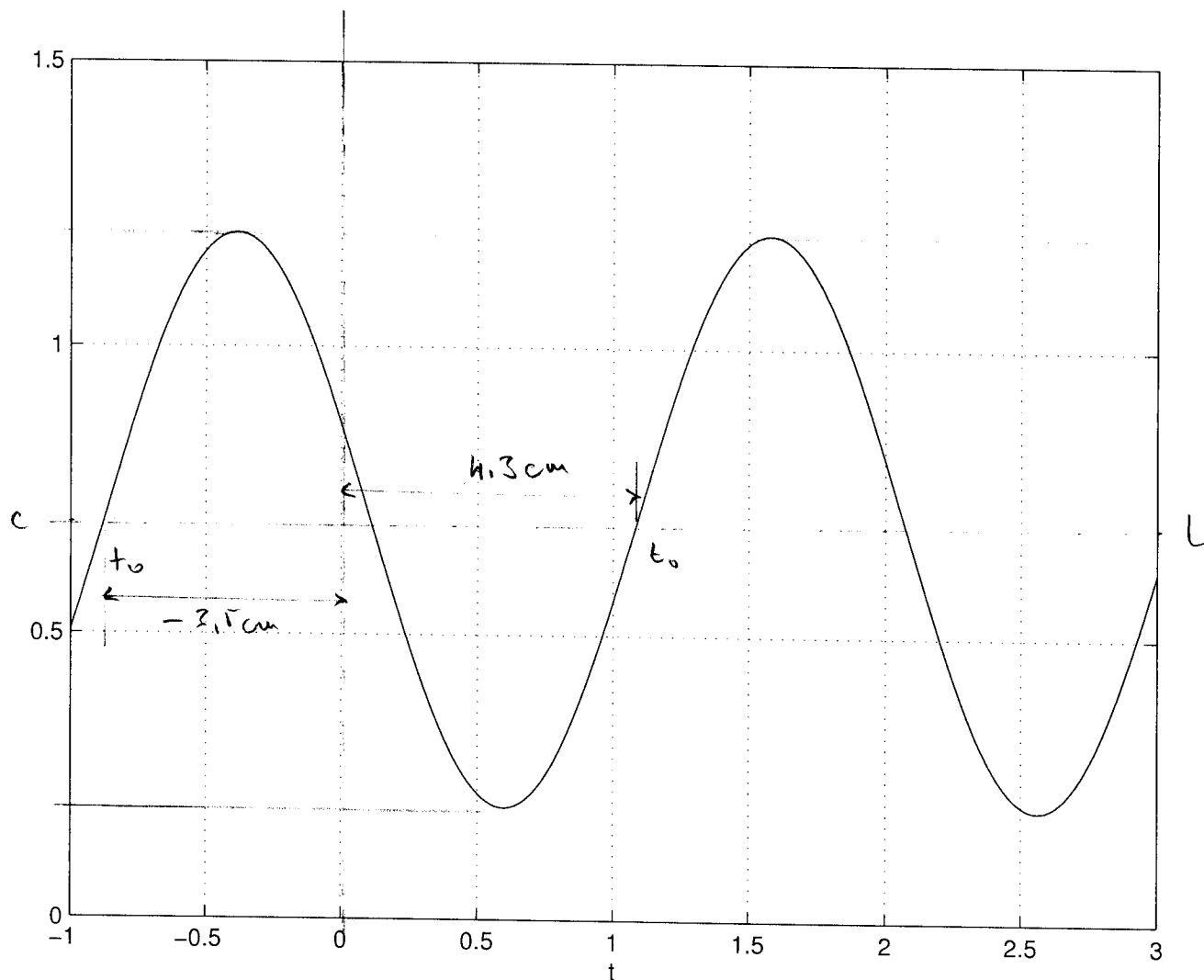
t-Achse: $2E \hat{=} 7.9 \text{ cm} \Rightarrow 1 \text{ cm} \hat{=} 0.25 E$

$2A \hat{=} 8.3 \text{ cm} \Rightarrow A = 0.5 E$

$c \hat{=} 5.7 \text{ cm} \Rightarrow c = 0.68 \quad (= 5.7 \times 0.12)$

$T \hat{=} 7.7 \text{ cm} \Rightarrow T = 7.7 \times 0.25 = 1.925 E$

$\omega = \frac{2\pi}{T} = 3.26$



$f(t) = c + A \sin(\omega(t - t_0))$

- ① $t_0 \hat{=} 4.3 \text{ cm} \quad t_0 = 4.3 \times 0.25 = 1.075 E \quad \varphi = -\omega t_0 = -3.5$
real
- ② $t_0 \hat{=} -3.5 \text{ cm} \quad t_0 = -3.5 \times 0.25 = -0.875 E \quad \varphi = -\omega t_0 = 2.875$
real

$f(t) = 0.68 + 0.5 \sin(3.26t - 3.5)$
 $= 0.68 + 0.5 \sin(3.26t + 2.875)$ oder