student task

MEK4420

Ole Sandok

March 2025

Introduction

7.1

7. 2

7. 3

7. 5. 1

7.5.2 - Løs integrallikningen med kjente variabler

7.5.3 - Solution of the heave problem

vi ønsker å løse integrallikningen:

$$-\pi\phi(\bar{x}\bar{y}) + \int_S \phi \frac{\partial}{\partial n} \ln r dS = \int_S \frac{\partial \phi}{\partial n} \ln r dS \tag{1}$$

der $\partial\phi/\partial n = n_1$ langs med S.

Diskret integrallikning.

$$-\pi\phi + \Sigma_{m=1}^{N} \phi_m(-\Delta\Theta_{n,m}) = \sum_{m=1}^{N} [\frac{\partial \phi}{\partial n}]_m h_{n,m} \tag{2}$$

Addert masse kan approksimeres slik:

$$m_{ij} = \rho \int_S \phi_j n_i dS \simeq \rho \sum_{m=1}^{N} [\phi_j]_m [n_i]_m \Delta S_m. \tag{3}$$

Figurer

Diskretisering av boks

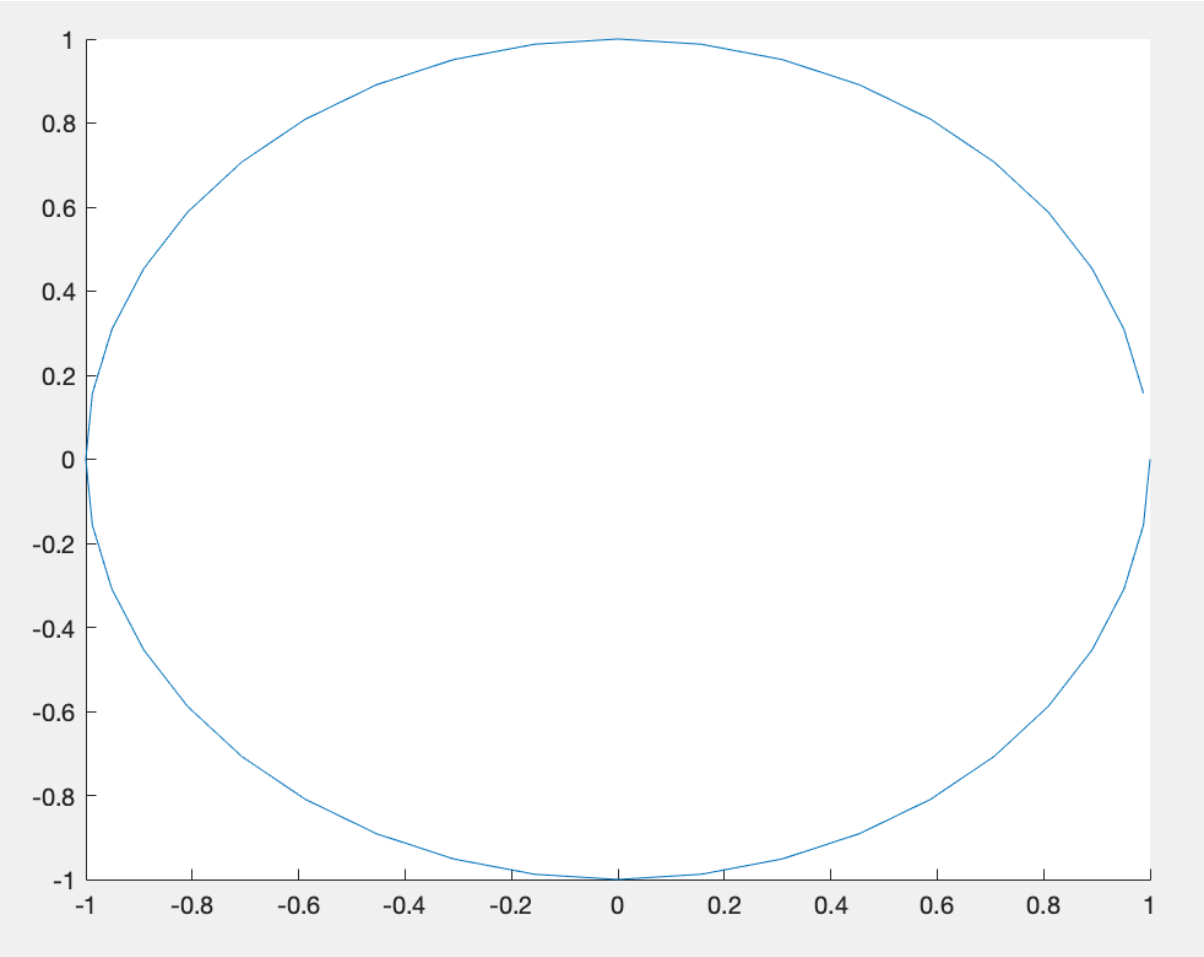

Figure 1

Wave Mechanics

Wave Mechanics

Kladd

References

[1]: Open Met Buoy, J. Rabault - DOI: 10.13140/RG.2.2.15826.07368