

Process Modelling

Pre-exam

5.11.2018

45 mins

No calculators.

One hand written cheat sheet allowed. (A4, both sides)

1. Explain with examples the three most typical boundary conditions (Dirichlet, Neumann, Robin).

2. Expand (do not solve)  $\frac{dN}{dh} = 0$  if  $N = cv - D \frac{dc}{dh}$ .

- a) D and v do not depend on h
- b) D and v are functions of h