Imperial College London
Department of mathematics
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Numerical Solution of
Ordinary Differential Equations
M345N7

Name:
CID:

Tutorial 8

Any marks received for the tutorial are only indicative and may be subject to moderation and scaling.

Exercise 1 (**Runge–Kutta methods and absolute stability**)   % of CW mark: 1.0

Find the interval of absolute stability of the modified Euler method.

Exercise 2 (**Runge–Kutta methods and order conditions**)   % of CW mark: 3.0
Mastery Component

Find the first, second, and third order conditions of the general 3-stage explicit Runge–Kutta method.