Computational Methods and Modelling

Antonio Attili & Edward McCarthy

antonio.attili@ed.ac.uk
ed.mccarthy@ed.ac.uk

School of Engineering
University of Edinburgh
United Kingdom

Tutorial 6
Gauss Elimination

THE UNIVERSITY
of EDINBURGH

- ▶ Three parachutists are connected by a weightless cord while free-falling at a velocity of 5 m/s.
- ▶ Calculate the tension in each cord, and the acceleration of the team given the following data

Parachutist	Mass, kg	Drag Coefficient, kg/s
1	70	10
2	60	14
3	40	17

- ▶ **Hints:**
  1. Use free body diagrams to express the problem
  2. Express the drag force as $c_i v$, where c_i are the drag coefficients and v the velocity.