Lecture 1 Andry (Dr Andrew) Organisation: Approx. 3h of recorded lectures
per week Lecture notes (typed) Also on blackboard: PDF handwritten notes from these lectures Some "new" videos some "recycled" from Leicester recordings ~ 2019 Discussion Forum: - ask questions on Blackboard (anonymously if you want) Tutorials - Ben Workbook - collection of exercises

Some ecercises must be submitted for grading - we will tell you which ones later! TM

(5) Integration 6) Differential Equations (easier) (8) Multi-variable continuity ldifferentiation Topic 1 H set is a collection of elements $S = \{2, 10, 19\}$ Defining sets: 5 = { 1,2,3, ...} S= { x : x is a whole number constructor 7 x is between 2 and 7 inclusive $= \{2,3,4,5,6,7\}$

Examples 7 = {x: x is whole number? integers = $\{2, -1, 0, 1, 2, ..., -2, -1, 0, 1, 2, ...\}$ Rall real numbers I natural numbers $\| N = \{x \in \mathbb{Z} : x \geq 0 \}$ = {0,1,2,...} Warning Some people say $IN = \{1, 2, 3, \ldots\}$ E "is an element- of" DEN or OFN $-1 \notin \mathbb{N}$ 3.5 $\notin \mathbb{Z}$