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LECTURE NOTES ON DYNAMICAL SYSTEMS, CHAOS AND FRACTAL GEOMETRY

Chaotic Dynamics and Fractals Eric Kuennen February 10, 2005 Contents 1 Discrete Dynamics: Iteration and Types of Orbits. 2 2 Graphical Analysis, and Attracting and Repelling Fixed Points 6 3 The Quadratic Family and Bifurcations. 9 4 Transition to Chaos. 9 5 Symbolic Dynamics. 9 6 The De fi nition of Chaos. 9 7 Period 3 Theorem and Sarkovskii ' s Theorem. 9

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