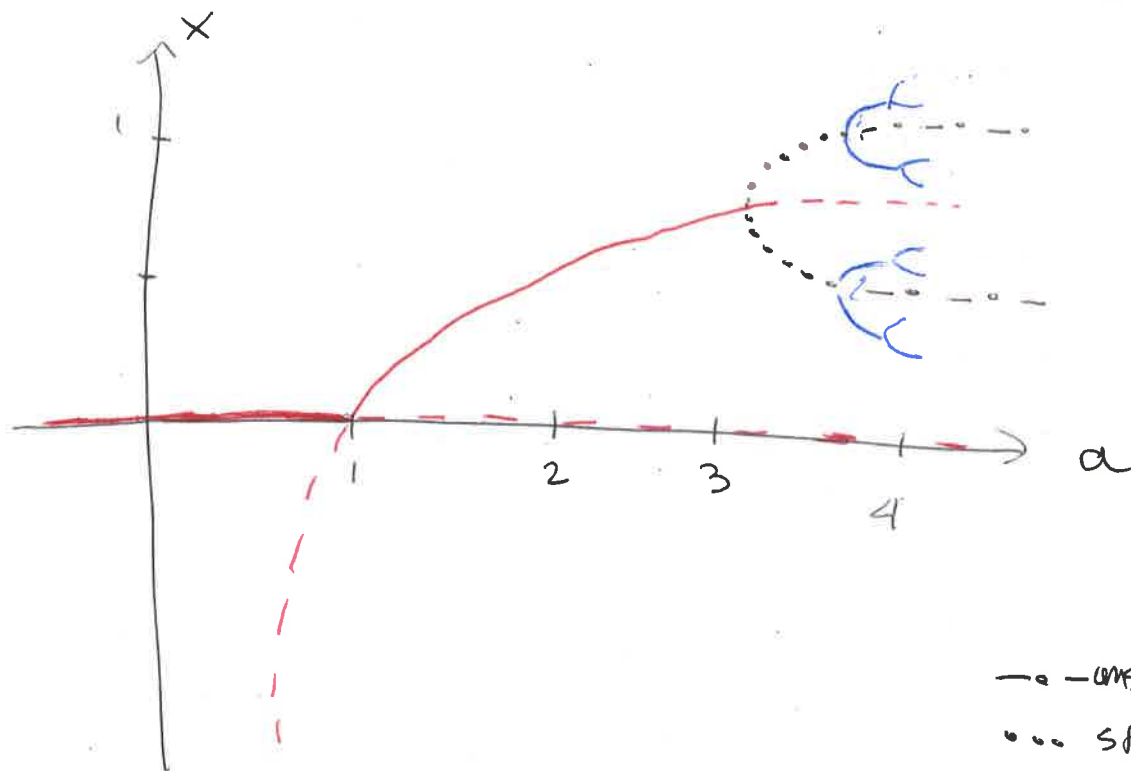


At this point there is a bifurcation to a stable 4-cycle and the two-cycle becomes unstable



- · - unstable 2 cycle
- ... stable 2 cycle
- stable fixed point
- - - unstable fixed point

As a is increased more and more bifurcations take place until at $r = 3.5699466$ there is the onset of chaos