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Theorem

Assume that g(x) is continuously differentiable g(p)=p and S=1g'(\*)<1. Then the FPI converges linearly with rate S to the fixed point P for initial guess sufficiently close to P.

\*Note

- · the order of convergence of the bisection method is linear · Newton's method is quadratically convergent.
- homework & quiz due Friday 02/08