

$$\frac{2}{b}$$

ATTENTION

BUT, VERY NEAR $\alpha = 3^{1/3}$

$$\begin{aligned}\alpha' &= 1.1 \cdot \alpha \\ &= 1.1 \cdot 3^{1/3} \\ &= 1.6\end{aligned}$$

$$\begin{aligned}g(1.6) &= \frac{2}{3} \cdot 1.6 + \frac{1}{1.6^2} \\ &= 3.6\end{aligned}$$

AGAIN, EVEN VERY NEAR α

$$g(x) \neq x$$

BUT, IS THIS THE ONLY
 ROUTE TO PROVE $\{x_n\} \rightarrow \alpha$
 NO \square ?

ASSUME $a < g(x) < b$

FOR $\forall x \in [a, b]$

