$\frac{2}{b}$

...ATIONS

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

$$\alpha' = 1.1 \cdot \alpha$$
$$= 1.1 \cdot 3^{1/3}$$
$$= 1.6$$
$$g(1.6) = \frac{2}{3} \cdot 1.6 + \frac{1}{1.6^2}$$
$$= 3.6$$

AGAIN, EVEN VERY NEAR α

$g(x) \neq \alpha$

BUT, IS THIS THE ONLY ~~ROBUST~~ TO PROVE $\{x_n\} \not\to \alpha$?

NO ?

ASSUME $a < g(x) < b$

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