

2  
a

$$x_{n+1} = -16 + 6 \cdot (3) + 12 \frac{1}{(3)}$$

$$= 6 > 3$$

→  $x_{n+1}$  DOESN'T MAP

ALL  $x \in [1, 3]$

ON  $[1, 3]$ , SO

$\{x_n\}$  WON'T CONVERGE

TO  $\alpha = 2$

THIS HOLDS FOR

$$x \in [1.99, 2.01]$$