2.c
$$\times_{n+1} = \frac{12}{1+\times_n}$$
, $\alpha = 3$
 $g'(x) = \frac{d g(x)}{d x} = \frac{12}{(1+x)^2}$
 $|g'(x)| = \frac{12}{16}$ $g < 1$ $g <$