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Given $u_1 = 1$, determine which one of the formulae below defines an increasing sequence for $n \geq 1$

Circle your answer.

[1 mark]

$$u_{n+1} = 1 + \frac{1}{u_n}$$

$$u_n = 2 - 0.9^{n-1}$$

$$u_{n+1} = -1 + 0.5u_n$$

$$u_n = 0.9^{n-1}$$