

- 18** At the start of year n , the population of deer in a park is D_n
At the start of the following year, the population of the deer is D_{n+1}

$$D_{n+1} = K D_n \quad \text{where } K \text{ is a constant.}$$

At the start of 2019, the population of the deer was 2000

At the start of 2020, the population of the deer was 2400

Show that, at the start of 2022, the population of the deer was greater than 3000