

Oef 11 p A.25

geg exp groei $f(t) = Ae^{\lambda t}$

$$1930 \leftrightarrow t=0 \quad f(0) = A = 2$$

$$1960 \leftrightarrow t=30 \quad f(30) = Ae^{\lambda 30} = 3$$

gev: ? 2000

opl 2000 $\leftrightarrow t=70$ $f(70)?$

$$A=2$$

$$e^{\lambda 30} = \frac{3}{2} \Rightarrow e^{\lambda} = \left(\frac{3}{2}\right)^{\frac{1}{30}}$$

$$f(70) = 2(e^{\lambda})^{70} = 2\left(\frac{3}{2}\right)^{\frac{70}{30}} = 5,15 \text{ miljard}$$