

3066

$$y = Ca^{2x}$$

$$y(0) = Ca^0 \quad a^0 = 1$$

$$y(0) = 3 \quad \text{ger } C = 3$$

$$y = 3a^x$$

$$y' = 3a^x \ln a$$

$$y' = 5y$$

$$5 \cdot 3a^x = 3a^x \ln a$$

$$5 = \ln a$$

$$e^5 = a$$

Vilket ger

$$y = 3e^{5x}$$