

Tangent till

2380

$$y = 10^x$$

$$y' = 10^x \cdot \ln 10$$

När $x=0$

$$y = 10^x$$

$$y = 10^0 = 1$$

$$k = \text{vid } x=0 = y$$

$$y = kx + m$$

$$1 = m$$

$$y = 10^x \cdot \ln 10 \cdot x + 1 \quad y = x \ln 10 + 1$$
$$= x \cdot 10^x \cdot \ln 10 + 1$$

$$y = 10^x \text{ --- (1) När } x=0 \text{ } y=1 \text{ --- (2)}$$

$$y = \underbrace{10^x}_{=y} \cdot \ln 10 \cdot x + 1$$
$$= 1 \cdot \ln 10 \cdot x + 1$$

$$y = \ln 10 \cdot x + 1$$