

2447

(a) $\lg(x+1) = 2$

$$10^{\lg(x+1)} = 10^2$$

$$x+1 = 10^2$$

$$x = 10^2 - 1$$

$$x = 99$$

Svar: $x = 99$

← Om VL = HL måste $10^{\text{VL}} = 10^{\text{HL}}$

(b) $\lg(\lg x) = -1$

$$10^{\lg(\lg x)} = 10^{-1}$$

$$\lg x = 10^{-1}$$

Eller skriv till:

$$10^{\lg x} = 10^{\frac{1}{10}}$$

$$x = 10^{\frac{1}{10}}$$

Svar: $x = 10^{\frac{1}{10}} \quad (= 10^{0,1})$