

Volumeknop

19 $x = 18 \rightarrow P = 100$

Dus: $100 = a \cdot \log(18 + 1)$

$$a = \frac{100}{\log(19)} = 78,201$$

20. $78 \cdot \log(x + 1) = 75$

$$\rightarrow \log(x + 1) = \frac{75}{78} = 0,962 \rightarrow x + 1 = (10)^{0,962}$$

$$\rightarrow x = (10)^{0,962} - 1 = 8,2$$

21. $k = -1,3 \rightarrow x = \frac{17}{20} \cdot 6$

Dus: $78 \cdot (\log(\frac{17}{20} \cdot 6 + 1)) = 61,3 \rightarrow P = 61$

22. $P = a \cdot \log(x + 1)$ met $x = 3k + 9$ en $a = 78$

Dus geldt: $P = 78 \cdot \log(3k + 10)$