

# Eindexamen wiskunde B1-2 havo 2005-II

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## Volumeknop

1.  $X = 18 \rightarrow P = 100$

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

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

2.  $78 \cdot \log(x + 1) = 75$

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

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

Of met de GR:  $y_1 = 78 \cdot \log(x + 1)$   $y_2 = 75$

Intersect  $x = 8,2$

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

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