

Demonstre que

$$\text{Log}_b(M) = \frac{\text{Log}_c(M)}{\text{Log}_c(b)}$$

aplicando o
logaritmo de c

aplicando
propriedade
da potência

$$x = \frac{\text{Log}_c(M)}{\text{Log}_c(b)}$$

passando
 $\text{Log}_c(b)$
dividindo, fica

$$\frac{\text{Log}_c(M)}{\text{Log}_c(b)}$$

$$x \cdot \text{Log}_c(b) = \text{Log}_c(M)$$

temos que

$$\text{fazendo} \quad \text{Log}_b(M) = x$$

mas
 $x = \text{Log}_b(M)$,
logo

$$\text{Log}_b(M) =$$

$$\text{temos que} \quad b^x = M$$

$$\text{Log}_c(b^x) = \text{Log}_c(M)$$

dos dois
lados da
expressão



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