1.
$$m(\alpha+b,x) = \alpha+b \times m(x)$$
 $\frac{1}{N}\sum_{\alpha+b}^{N}(\alpha+bx) = \frac{1}{N}\sum_{\alpha+b}^{N}(\alpha+bx) = \frac{1}{N}\sum_{\alpha+b}^{N}$