

Exemplo 1 $f(x) = \alpha x$, $\alpha \in \mathbb{R}$

$$\begin{aligned} f^{-1}(x) = \frac{x}{\alpha} &\Rightarrow M_f(x_1, x_2) = f^{-1}\left(\frac{f(x_1) + f(x_2)}{2}\right) \\ &\Rightarrow M_f(x_1, x_2) = f^{-1}\left(\frac{\alpha x_1 + \alpha x_2}{2}\right) \end{aligned}$$

$$\boxed{M_f(x_1, x_2) = \frac{x_1 + x_2}{2}}, \text{ Média Aritmética.}$$