I can define a vector function of x

$$g(x) := \begin{bmatrix} x^2 \\ \sin(x) \end{bmatrix}$$

$$g(0.5) \xrightarrow{float,3} \begin{bmatrix} 0.25 \\ 0.479 \end{bmatrix}$$

and get the g(x)[0 or g(x)[1

$$g(x)_0 \rightarrow x^2$$

$$g(x)_1 \rightarrow \sin(x)$$

$$\sum_{j=0}^{1} g(x)_j \rightarrow \sin(x) + x^2$$

I can define a function g(x) inside of a programm and use it

$$A1(a) := \begin{Vmatrix} g(x) \leftarrow \cos(x) + \sin(x) \\ g(a) \end{Vmatrix}$$

$$A1(0.5) \xrightarrow{float,3} 1.36$$

But, I can´t define a vector function of x inside a programm and use it

$$A2(a) := \begin{Vmatrix} \boxed{g(x)}_0 \leftarrow x^2 \\ g(x)_1 \leftarrow \sin(x) \\ g(a) \end{Vmatrix}$$

$$A3(a) := \begin{Vmatrix} b_0 \leftarrow \boxed{x}^2 \\ b_1 \leftarrow \sin(x) \\ g(x) \leftarrow b \\ g(a) \end{Vmatrix}$$

$$\boxed{A2}(0.5) \rightarrow \ ?$$

$$A3(0.5) \rightarrow \begin{bmatrix} x^2 \\ \sin(x) \end{bmatrix}$$

Some idea?