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## 0.1 Endomorphisms on real functions

We start with our vector f(x).

$$h(x) = f(x)g(x)$$

The equivalent of the identity matrix is where g(x) = 1.

These are similar to endomorphisms where all off diagonal elements are 0.

## 0.1.1 Differentiation

$$h(x) = \frac{\delta}{\delta x} f(x)$$

## 0.1.2 Integration

$$h(x) = \int_{-\infty}^{x} f(z)dz$$