

$$X \cdot w + b = Y$$

The diagram illustrates the linear equation $Y = X \cdot w + b$. The components are represented as follows:

- X : A horizontal row vector consisting of four white boxes, each containing three dots (\dots).
- w : A vertical column vector consisting of four red boxes.
- b : A single blue box.
- Y : A single white box containing three dots (\dots).

The equation is represented by the symbols \cdot (multiplication), $+$ (addition), and $=$ (equality).