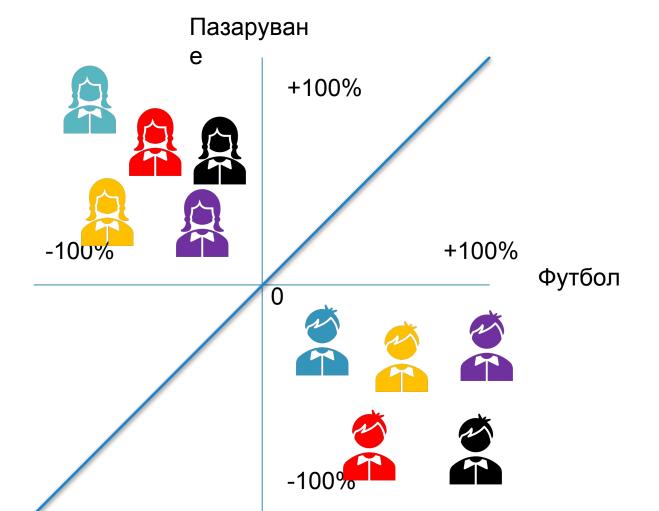


$$(y - y_0) = m (x - x_0)$$

 $(y - 0) = 1 (x - 0)$
 $y = x$
 $x - y = 0$

Пола =
$$\begin{cases} 1 \text{ (момче) } x - y > 0 \\ 0 \text{ (момиче) } x - y < 0 \end{cases}$$





$$x = -90, y = 30$$

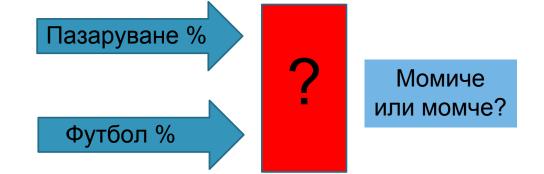
 $-90 - 30 = -120 < 0$



$$x = 100, y = -90$$

 $100 - 90 = 10 > 0$





$$(y - y_0) = m (x - x_0)$$

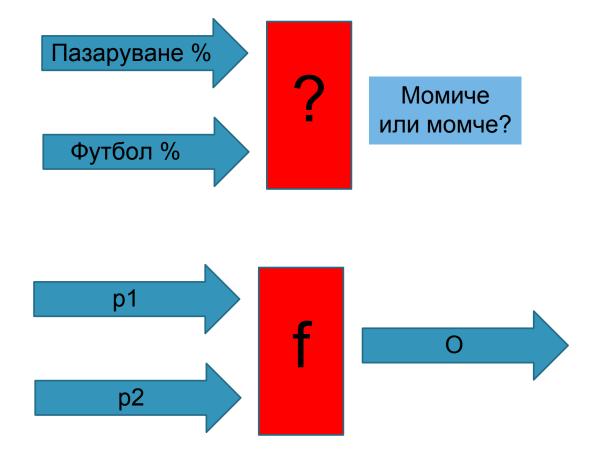
 $(y - 0) = 1 (x - 0)$
 $y = x$
 $x - y = 0$

Пола =
$$\begin{cases} 1 \text{ (момче) } x - y > 0 \\ 0 \text{ (момиче) } x - y < 0 \end{cases}$$

Математическо представяне

$$0 = f(x, y) = \begin{cases} 1 \ y - x > 0 \\ 0 \ y - x < 0 \end{cases}$$

$$0 = f(p1, p2) = \begin{cases} 1 p1w1 + p2w2 > 0 \\ 0 p1w1 + p2w2 < 0 \end{cases}$$



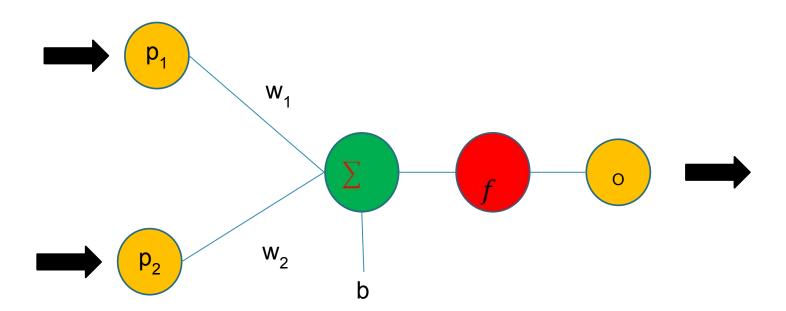
$$0 = f(p1, p2) = \begin{cases} 1 p1w1 + p2w2 > 0 \\ 0 p1w1 + p2w2 < 0 \end{cases}$$

$$f(p1, p2) = \begin{cases} 1 \ p1w1 + p2w2 > b \\ 0 \ p1w1 + p2w2 < b \end{cases}$$

$$f(p1,p2) = \begin{cases} 1 \ p1w1 + p2w2 - b > 0 \\ 0 \ p1w1 + p2w2 - b < 0 \end{cases}$$

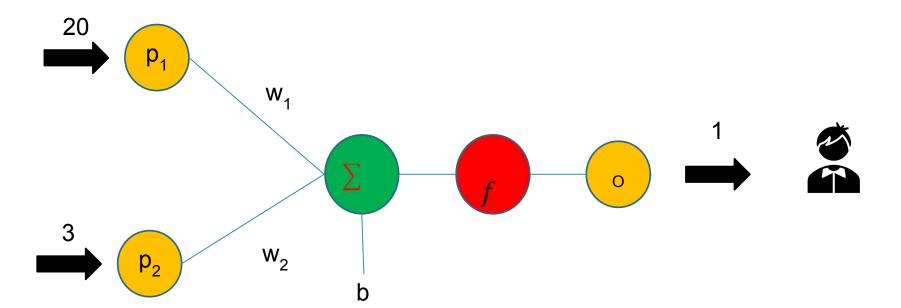
$$f(p1, p2) = \begin{cases} 1 \ p1w1 + p2w2 + b > 0 \\ 0 \ p1w1 + p2w2 + b < 0 \end{cases}$$

o =
$$f(p1, p2)$$
 =
$$\begin{cases} 1 p1w1 + p2w2 + b > 0 \\ 0 p1w1 + p2w2 + b < 0 \end{cases}$$



(20, 3) момче или момиче?

o =
$$f(p1, p2)$$
 =
$$\begin{cases} 1 p1 * 1 + p2 * -1 + 0 > 0 \\ 0 p1 * 1 + p2 * -1 + 0 < 0 \end{cases}$$



(3, 20) момче или момиче?

o =
$$f(p1, p2)$$
 =
$$\begin{cases} 1 p1 * 1 + p2 * -1 + 0 > 0 \\ 0 p1 * 1 + p2 * -1 + 0 < 0 \end{cases}$$

