$$F(x) = \int_{0}^{x} (1 - \xi)h dt = ht \int_{0}^{x} - \frac{h}{2w} \int_{0}^{x} = hx - \frac{h}{2w} x^{2} = hx (1 - \frac{x}{2w})$$
Since the one one of be 1: A=hw=1 $\Rightarrow h = 2/w$

$$F(x) = \begin{cases} 0, & x < 0 \\ 2x(1 - \frac{x}{2w}), & 0 \le x \le w \end{cases}$$

$$Y = \frac{2x}{w} (1 - \frac{x}{2w})$$

$$x^{2} - 2wx + w^{2}y = 0$$

$$1, & x > w \qquad x = w(1 \pm \sqrt{1 - y})$$

we require the root x=w(1+V-7) nince x ∈ [0,w]

 $f(\infty) = \begin{cases} (1 - x / u)h & 0 \le x \le u \end{cases} f(x)$ 0 & otherwise 0 & otherwise