Question: Write a linear function that satisfies the given conditions.

f(0)=4, f(1)=7 and h(0)=13, h(3)=1.

Answer.

$f(0)=4,\ f(1)=7$

$f(x)=kx+b$

$$\begin{cases} 4 = 0 + b \\ 7 = k + b \end{cases}$$

$k = 3, b = 4$

$f(x) = 3x + 4$

$h(0)=13,\ h(3)=1$

$h(x)=kx+b$

$$\begin{cases} 13 = 0 + b \\ 1 = 3k + b \end{cases}$$

$k = -4, b = 13$

$h(x) = -4x + 13$