2019년 8월 14일 수요일 오후 6:49

First, 
$$f(n-1) = f(n) \cdot 2 - f(n+1) + 1 \rightarrow f(n+1) = f(n) + 1$$
  
Thus, for  $x \in \mathbb{Z}$ ,  $f(x) = x + 1$ . Also,  
 $f(x+k) = f(x) + k$  ( $k \in \mathbb{Z}$ ).

Now, for 
$$n \in \mathbb{Z}/\{o\}$$
,
$$f(n) = 2 = f(n \cdot h) = f(n)f(h) - f(n+h) + 1$$

$$= (n+1)f(h) - f(h) - n+1 \longrightarrow \frac{n+1}{n} = 1 + h = f(h).$$
Now,  $f(h) = h + 1$  turns out to be true easily
$$(m \in \mathbb{Z}, n \in \mathbb{Z}/\{o\}) \text{ by the pormulas previously discussed}$$