SWEEK: 
$$\frac{\partial h}{\partial t} + \frac{\partial Q}{\partial x} = 0$$
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SWE: Exp: | 
$$u = const.$$
 &  $-u \frac{\partial u}{\partial x} - \frac{u^2}{h} \frac{\partial h}{\partial x} \propto u \frac{\partial u}{\partial x}$ 

Eqs:  $\frac{\partial h}{\partial t} + u \frac{\partial h}{\partial x} = 0$   $-\frac{1}{4}$ 

&  $\frac{\partial u}{\partial t} + u \frac{\partial u}{\partial x} + \frac{\partial u}{\partial x} + \frac{\partial u}{\partial x} + \frac{\partial u}{\partial x} + \frac{\partial u}{\partial x} = 0$ 
 $\Rightarrow \frac{\partial h}{\partial x} = -\frac{\partial u}{\partial x} + \frac{\partial u}{h} + \frac{\partial u}{h} = 0$ 
 $\Rightarrow h(x,t) = h(x-ut,0)$ 

BC:  $h(ut,t) = 0 \Rightarrow c = -\frac{1}{4}(n^2u^2,ut)$  (Moving BC)

 $h(x,t) = \left[-\frac{1}{3}(n^2u^2x+c)\right]^{3/7}$ 

So  $h(0,t) = \left(\frac{7}{3}n^2u^3t\right)^{3/7}$