(3 pts) 2 You have a flashlight which gets accidentally turned on inside your backpack. When on, the flashlight draws 500mA from its 3 Ah cells. When you pull the flashlight out to use it, the light goes out in 30 minutes. How long was the light on inside your backpack?

\[ I = 500 \text{mA} = 0.5 \text{A} \]

\[
\begin{align*}
\text{cells contain} & \quad 3 \text{Ah} \\
\ell & = 30 \text{min} \\
\ell_e & = ?
\end{align*}
\]

\[ t_{\text{total}} = \frac{3 \text{Ah}}{0.5 \text{A}} = 6 \text{ hours} \]

\[ t_{\text{total}} - t = \ell = (6 \text{ hrs} - 30 \text{ min}) = 5.5 \text{ hrs} \]