

$$\begin{aligned}\frac{d}{dx} \left[\frac{h(x)}{x} \right] &= \frac{x \cdot h'(x) - h(x) \cdot 1}{x^2} \Rightarrow \\ \frac{d}{dx} \left[\frac{h(x)}{x} \right]_{x=2} &= \frac{2h'(2) - h(2)}{2^2} = \frac{2(-4) - (2)}{4} = \frac{-10}{4} = -2.5\end{aligned}$$