$6^{\text {th }}$ edition
Hint 3.4
Given a graph you must calculate the slope at that point.
For $m=\frac{m_{0}}{\sqrt{1-\left(v^{2} / c^{2}\right)}}$ rewrite it so that you can see the function and coefficients $m=m_{0}\left(1-\frac{1}{c^{2}} v^{2}\right)^{-\frac{1}{2}}$ now find the derivative.
\#82 $V(x)=x^{2}+3 x-2 \quad V$ is a function with respect to x . And $V$ is velocity. Acceleration is a function with respect to time
Acceleration $=\frac{d V}{d t}=\frac{d V}{d x} * \frac{d x}{d t}$
And what was given is $\frac{d x}{d t}$ is the velocity $V(x)$
So acceleration is $\frac{d V}{d x} * V(x)$

