for a body travelling with a uniform acceleration, its final velocity is $\mathrm{v}=\mathrm{V}(180-7 \mathrm{x})$, where x is the distance travelled by the body then acceleration is

$$
\begin{gathered}
v=\sqrt{180-7 x} \\
a=\frac{d v}{d t}=\frac{\frac{d v}{d x}}{\frac{d t}{d x}}=\frac{d x}{d t} \frac{d v}{d x}=v \frac{d v}{d x}=(\sqrt{ }(180-7 x)) *\left(-7 \frac{1}{2 \sqrt{180-7 x}}\right)=-3.5
\end{gathered}
$$

