TeX code compiled with \documentclass{beamer} using the Amsterdam theme.

\begin{document} \begin{frame} Find the average value of each function on the given interval. \vskip 10pt \begin{enumerate}[a)] \item $ f(x) = 10x - x^2$ on the interval $ [0, 2] $ \vskip 15pt \item $f(\theta) = 11 \sec^2(\theta/4)$ on the interval $ [0,\pi] $ \vskip 15pt \item $ h(x) = 7 \cos^4(x)\sin(x) $ on the interval $ [0,\pi] $ \end{enumerate} \end{frame} \begin{frame} Consider the function $$f(x) = 3\sqrt{x}$$ \begin{enumerate}[a)] \item Find the average value $f_{\mbox{ave}}$ of f on the interval $[0, 16]$. \item Find all values c such that $f_{\mbox{avg}}= f(c)$. \item Sketch the graph of f and, in the same picture, a rectangle whose area is the same as the area under the graph of f. \end{enumerate} \end{frame} \begin{frame} Consider the function $$f(x) = (x-5)^2$$ \begin{enumerate}[a)] \item Find the average value $f_{\mbox{ave}}$ of f on the interval $[4,7]$. \item Find all values c such that $f_{\mbox{avg}}= f(c)$. \item Sketch the graph of f and, in the same picture, a rectangle whose area is the same as the area under the graph of f. \end{enumerate} \end{frame} \begin{frame} Consider the function $$f(x) = 9 sin(4x)$$ \begin{enumerate}[a)] \item Find the average value $f_{\mbox{ave}}$ of f on the interval $[-\pi, \pi]$. \item Find all values c such that $f_{\mbox{avg}}= f(c)$. \item Sketch the graph of f and, in the same picture, a rectangle whose area is the same as the area under the graph of f. \end{enumerate} \end{frame} \begin{frame} Find all numbers b such that the average value of $$f(x) = 7 + 10x - 9x^2$$ on the interval $[0, b]$ is equal to 8. \vskip 65pt The velocity v of blood that flows in a blood vessel with radius R and length L at a distance r from the central axis is $$v(r) =\frac{ P}{4\eta L}(R^2 - r^2)$$ where P is the pressure difference between the ends of the vessel and η is the viscosity of the blood. Find the average velocity (with respect to r) over the interval $0 \leq r \leq R$. \end{frame} \end{document}