

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

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\begin{document} \begin{frame} \large Sketch the graph of  $y=(x-1)^2+2$  on the closed interval  $[-4,4]$ . \vskip 15pt \begin{itemize} \item[\bf (a)] What are the local maximum and minimum values? points? \vskip 15pt \item[\bf (b)] What are the absolute maximum and minimum values? points? \end{itemize} \end{frame} \large Find the critical number of the following functions \vskip 15pt \begin{itemize} \item[\bf (a)]  $f(x) = 8x^3 - 12x^2 - 48x$  \vskip 15pt \item[\bf (b)]  $g(x) = x^{\frac{3}{4}} - 9x^{\frac{1}{4}}$  \vskip 15pt \item[\bf (c)]  $h(\theta) = 18\cos(\theta) + 9\sin^2(\theta)$  \end{itemize} \end{frame} \large Show that  $5$  is a critical number of the function  $g(x)=2+(x-5)^2$  but  $g$  does not have a local extreme value of  $5$ . \vskip 60pt If  $f$  has a minimum value of  $c$ , does the function  $g(x)=-f(x)$  have a maximum value of  $c$ ? \end{frame} \end{document}
```

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Last update: **2014/08/29 13:33**