1. local and absolute maximums and minimums: what they are

## 2. A variety of examples

3. A critical numberx of $f(x)$ is
4. First, find the domain and all critical numbers. Then, identify all local and/or absolute maxima and minima. Use technology to sketch the graphs and confirm your answers.
(a) $f(x)=e^{x}(x-2)^{2}$
(b) $f(x)=(x-2)^{2 / 3}+1$
(c) $f(x)=\frac{x^{2}}{(x-1)^{2}}$
