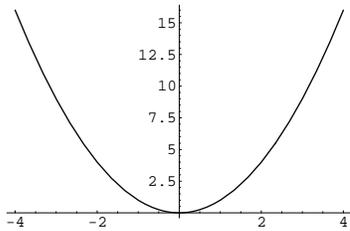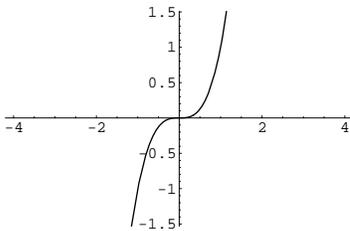**Math Xa Fall 2003**
Worksheet: Analysis of Extrema
November 12, 2003

For each of the following functions, identify all extrema (local and absolute) and extreme values.
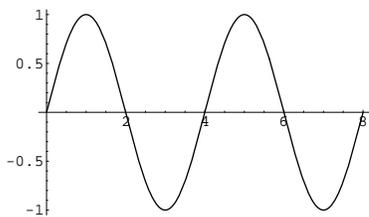
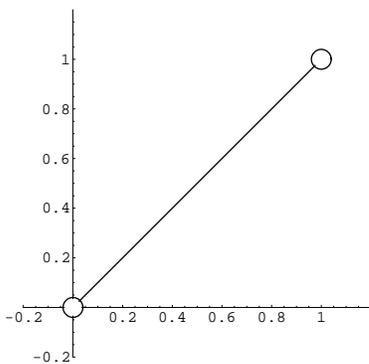1. $f(x) = x^2$, Domain $= (-\infty, \infty)$

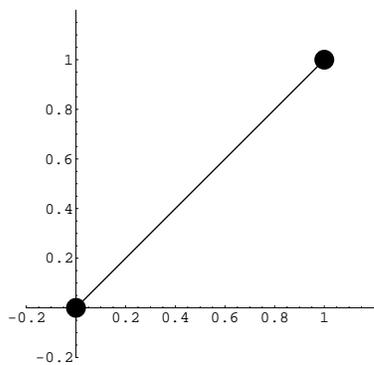2. $f(x) = x^3$, Domain $= (-\infty, \infty)$

3. Domain $= [0, 8]$

4. Domain $= (0, 1)$

5. Domain = $[0, 1]$

6. Domain = $[0, 2]$