Maximum & Minimum Values

a b c d e f

**(x, f (x))**



**where max/min actual value**

**occurs**

**Absolute Maximum:** (c, F (d))

**Absolute Minimum:** (f, F (f))

**Relative Maximums:** (c, F (c)), (e, F (e))

**Relative Minimums:** (b, F (b)), (d, F (d))

**Relative (Local) Maximums & Minimums:**

* Any Max. or Min. value on a given interval
* A relative max/min can also be an absolute max/min
* A relative max/min can never occur at an endpoint [only at (b, F (b)), (c, F (c)), (d, F (d)), and (e, F (e))]