3.2 MAXIMUMS AND MINIMUMS ON AN INTERVAL

Recall: To achieve a maximum and or minimum you set	
Ex. 1 Determine the max and min values of $f(x) = -x^2 + 6x - 3$ on the interval $4 \le x \le 8$.	
Here are some possibilities of maximum and minimum situations.	

To find max or min values on an interval $a \le x \le b$.

Ex. 2 Find the extreme values of $f(x) = -2x^3 + 9x^2 + 4$ on the interval $-1 \le x \le 5$.

Ex. 3 The amount of light intensity can be represented by $I(t) = \frac{t^2 + 2t + 16}{t + 2}$, where t is the time in seconds and $0 \le t \le 14$. Determine the time of minimal intensity.