Problem set 8 : Single variable optimization

Exercise 1

Find the stationary points of each function on the given interval and classify them :

1. $f(x) = x^3 - 6x^2 + 9x + 8$
2. $f(x) = 3x^2 - x^3$
3. $f(x) = x^4 - 4x^3 + 4x^2$
4. $f(x) = (x^2 - 1)^2$

5. $f(x) = \dfrac{x}{x^2 + 1}$

6. $f(x) = \dfrac{1}{x^2 + 1}$

Exercise 2

Ms. Meyer, candidate to the White House, estimates that by campaigning in a state for x days, she will gain $2x$ (thousand) votes, but her campaign expenses will be $5x^2 + 500$ dollars. She wants to campaign for the number of days that maximizes the number of votes per dollar, $f(x) = \dfrac{2x}{5x^2 + 500}$. For how many days should she campaign ?

Exercise 3

1. Find the global maximum and global minimum of the function $f(x) = x^3 - 15x^2 + 63x$ on the interval $[0, 10]$.

2. Same question but on the interval $[0, 8]$.

3. Again, same question but on the interval $[2, 8]$.

4. Can you find a domain such that the minimum occurs at a critical number and the maximum at an endpoint ?

Exercise 4

Consider the following functions :

$$f(x) = \frac{ln(x)}{x}$$

$$f(x) = 3x^2 e^{-x}$$

$$f(x) = xln(x)$$

$$f(x) = \frac{1}{e^{1-x^2}}$$

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