



## 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.  $f(x) = \frac{x}{x^2 + 1}$

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

**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,  $f(x) = \frac{2x}{5x^2 + 500}$ . 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 :

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

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

$$f(x) = x \ln(x)$$

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

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**David Baud**



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