
Homework assignment: On what intervals is a function positive / negative?
Due Thursday February 7

Find the intervals on which the following functions are positive / negative. Give your answer both using interval notation AND using a number line. There are two more problems on the back of the sheet.

1. $f(x) = x^4 - 9x^2$

2. $f(x) = 2x^3 - x^2 - x$

(Over)

3. $f(x) = \frac{x-1}{x^2-4}$

4. $f(x) = \sin x - \frac{1}{2}$ (Here only use domain $[0, 2\pi]$.)