

Panel 1

Homework

① Find local extrema for $f(x) = 3x^4 - 4x^3 - 12x^2 + 5$
and identify all intervals where f is increasing

② Find relative extrema of $f(x) = x^3(1-x^2)$

③ Rel. extrema of $f(x) = x^{1/3}(2-x)$

④ Discuss concavity for $f(x) = x^3 - 2x^2 + 3x - 4$

⑤ $f(x) = x^4 - 4x^3$ - discuss concavity