

Problem 7: Top Average

Find the value of t that maximizes the average value of the function $f(x) = x^3 - 2x^2 - x + 2$ over the interval $[-1, t]$ for $-1 \leq t \leq 2$.

As always, show your work, fully explain and justify your answer.

Posting Date 4/14/2017. Submit solutions to Noah Aydin, Mathematics Department, RBH 319 (e-mail or hard-copy, but hard copy submissions must include a time stamp) by 4 pm on 4/23/17.