Bellwork - Khan Academy

Subject --> SAT --> Practice --> Math -->

Problem Solving and Data Analysis -->

Table Data -->

Practice - do 5 questions. Must show me, this one I can't see from my side of program.

Sec 2.4 day 4

<u>upper bound</u> - a number k is an upper bound, if f(x) is never zero when x is greater than k.



To determine if a number, k, is an <u>upper bound</u> we use synthetic division, if last line is all positive #s then k is an upper bound.

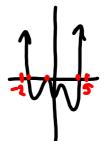
<u>lower bound</u> - a number k is a lower bound, if f(x) is never zero when x is less than k.



To determine if a number, k, is a lower bound we use synthetic division, if last line is positive/ negative alternating signs, then k is a lower bound

ex. Prove that all of the real zeros of

$$f(x) = 2x^4 - 7x^3 - 8x^2 + 14x + 8$$
Must lie in the interval of [-2, 5]



5 is an upper bound because

My Mathlab Sec 2.4 day4