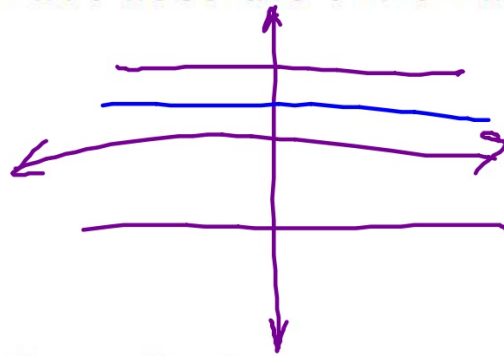
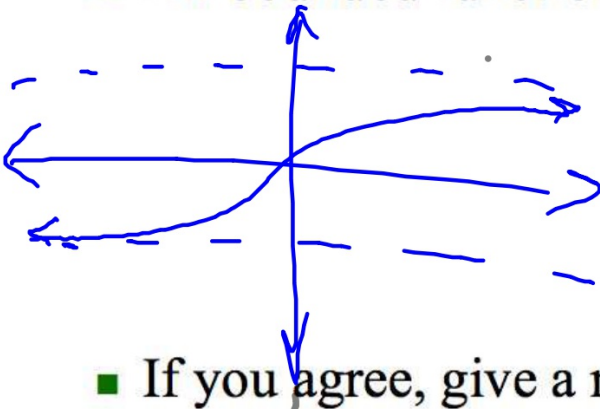


Agree or Disagree and WHY?

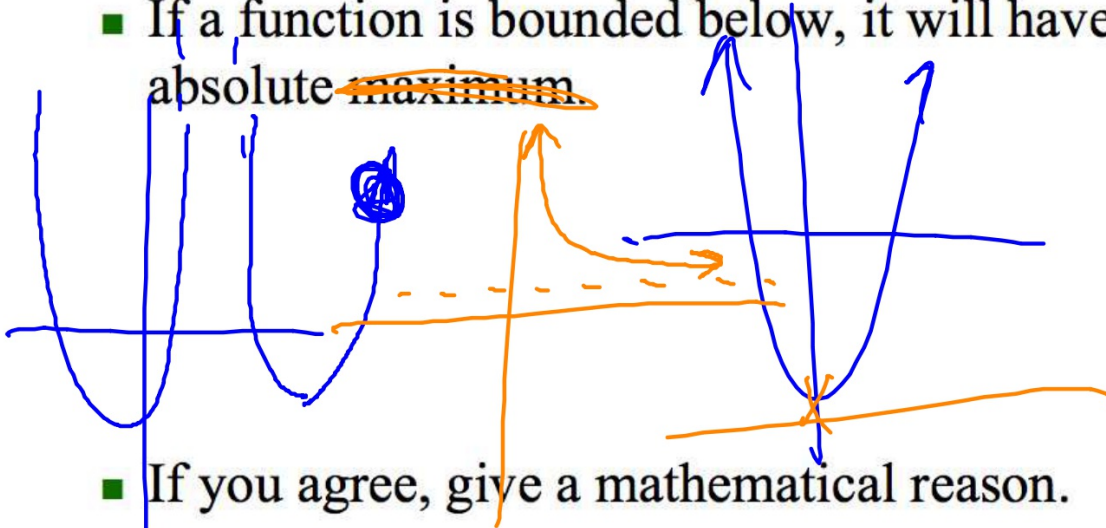
- All bounded functions have absolute extrema.



- If you agree, give a mathematical reason.
- If you disagree, provide a **counterexample**.

Agree or Disagree and WHY?

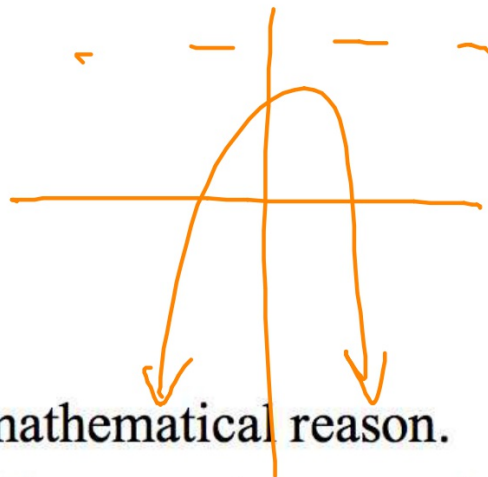
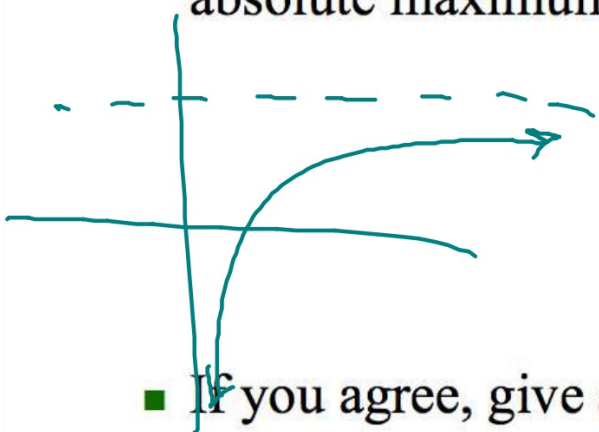
- If a function is bounded below, it will have an absolute ~~maximum~~.



- If you agree, give a mathematical reason.
- If you disagree, provide a **counterexample**.

Agree or Disagree and WHY?

- If a function is bounded above, it will have an absolute maximum.

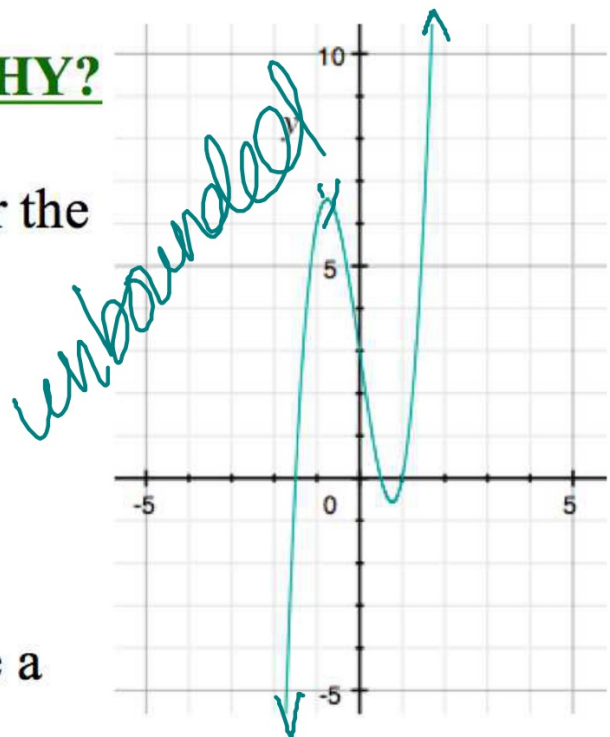


- If you agree, give a mathematical reason.
- If you disagree, provide a **counterexample**.

Agree or Disagree and WHY?

- This function has an ~~absolute~~ maximum near the y value 6.5.

- If you agree, give a mathematical reason.
- If you disagree, provide a counterexample.

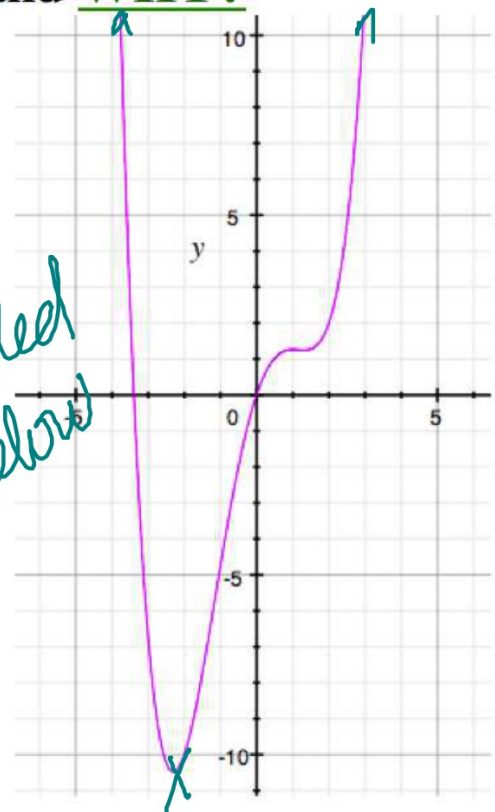


Agree or Disagree and WHY?

- This function has a global minimum near $y = -10$.

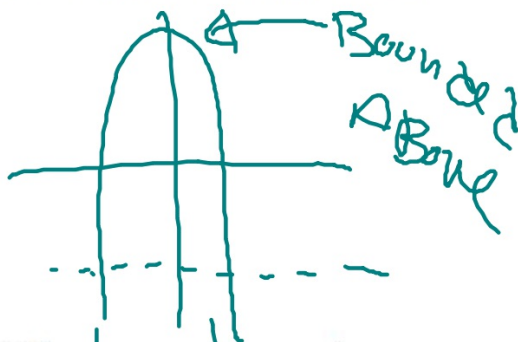
bounded below

- If you agree, give a mathematical reason.
- If you disagree, provide a **counterexample**.



Agree or Disagree and WHY?

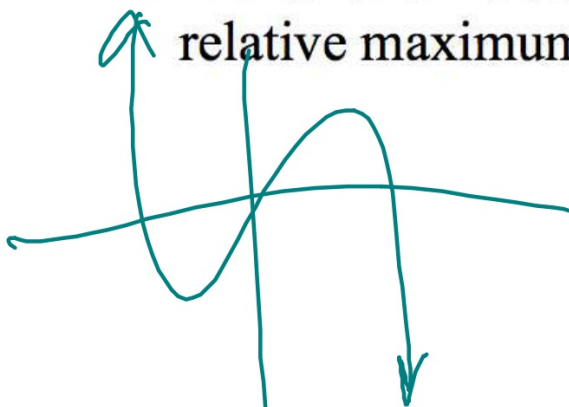
- If a function is bounded above, it can have an absolute minimum.



- If you agree, give a mathematical reason or an example.
- If you disagree, provide a **counterexample**.

Agree or Disagree and WHY?

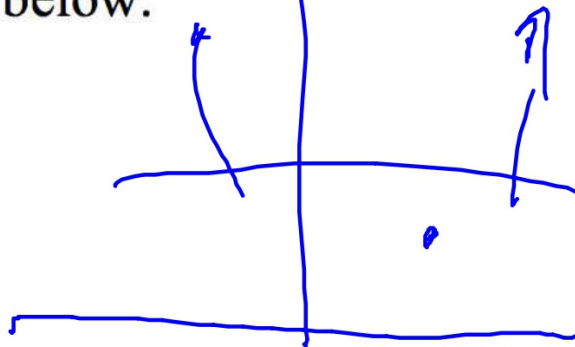
- If a function is bounded below, it can have a relative maximum.



- If you agree, give a mathematical reason or example.
- If you disagree, provide a **counterexample**.

Agree or Disagree and WHY?

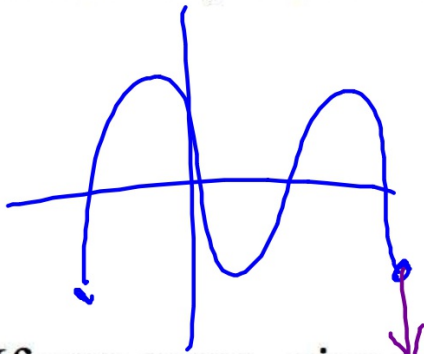
- If a function has a global minimum, it is bounded below.



- If you agree, give a mathematical reason or example.
- If you disagree, provide a **counterexample**.

Agree or Disagree and WHY?

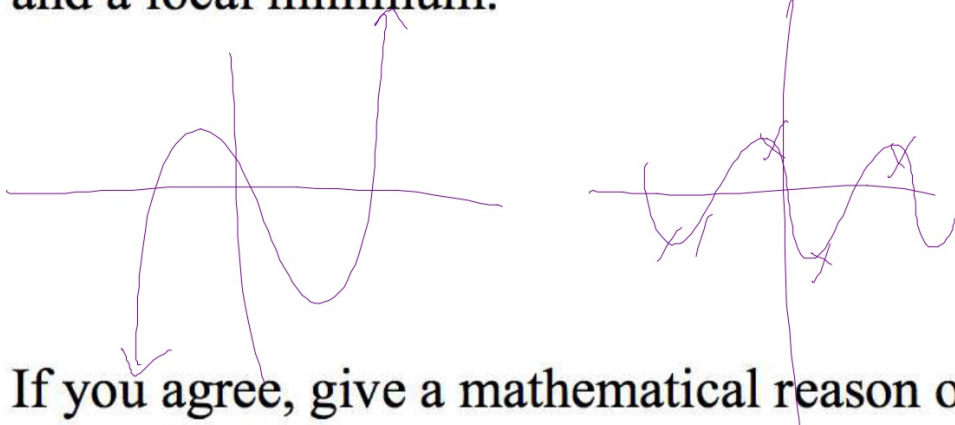
- If a function has an absolute maximum and minimum, then is it bounded above.



- If you agree, give a mathematical reason or example.
- If you disagree, provide a **counterexample**.

Agree or Disagree and WHY?

- A function cannot have both a local maximum and a local minimum.



- If you agree, give a mathematical reason or example.
- If you disagree, provide a **counterexample**.

Agree or Disagree and WHY?

- A function cannot have both an absolute maximum and an absolute minimum.
- If you agree, give a mathematical reason or example.
- If you disagree, provide a **counterexample**.