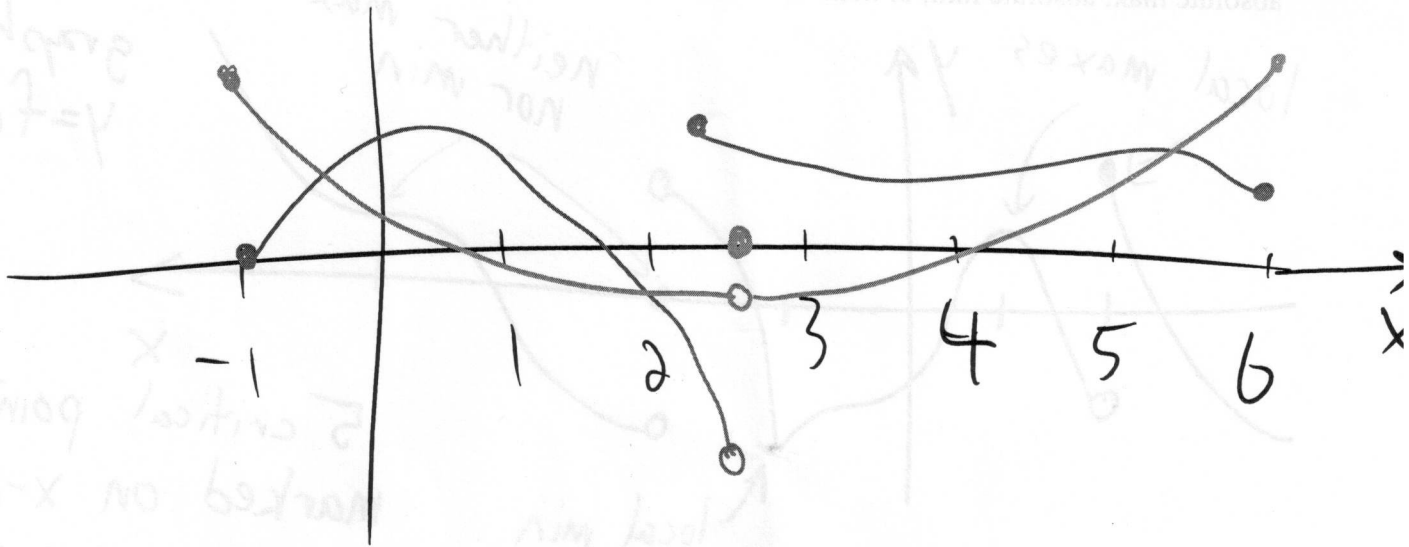


4. Can you draw the graph of a function $f(x)$ defined on $[-1, 6]$ that has no absolute minimum (if so, sketch it below)? What does the Extreme Value Theorem have to say about this situation (explain)?

Yes! Extreme Value Theorem requires a continuous function, not required here.

Two examples:



5. Draw the graph of a function $f(x)$ defined for all real values of x that is continuous and has both an absolute minimum and an absolute maximum.

