

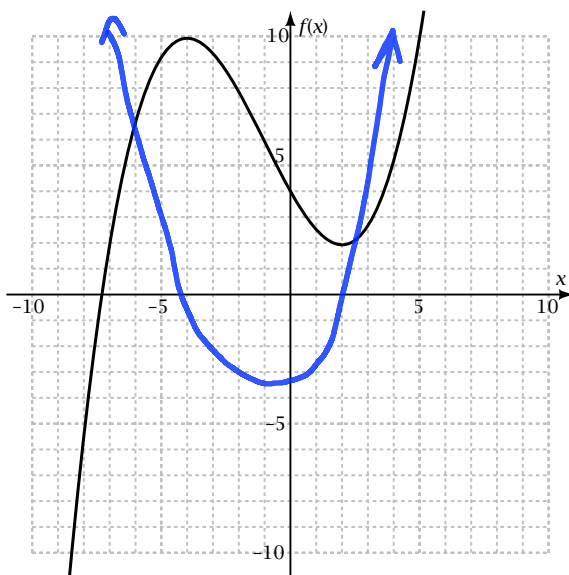
Exploration 3-3b: Derivative Graphs from Function Graphs

Date: _____

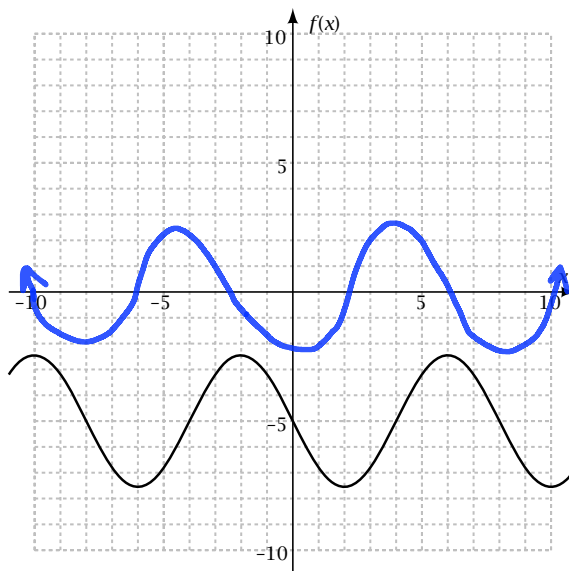
Objective: Given the graph of a function, sketch the graph of the derivative function.

For each function given, sketch the graph of the derivative function. Locate x -intercepts on the derivative graph by recalling that the derivative is zero if the tangent line is horizontal and has a high point or a low point where the derivative is steepest. Show the behavior of the derivative graph where the given function graph has a cusp or a discontinuity.

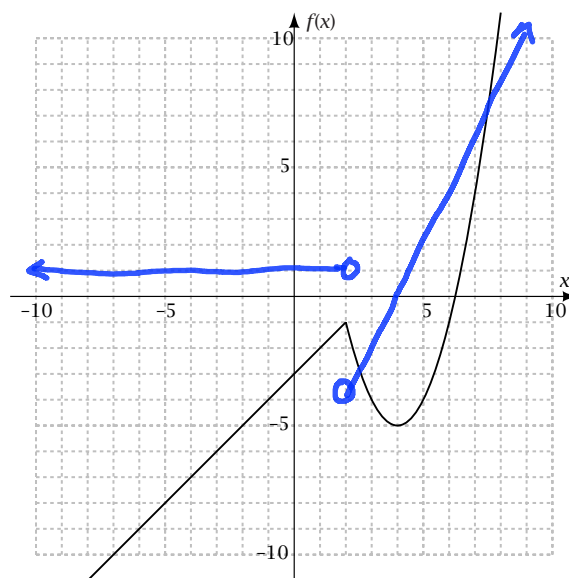
1.



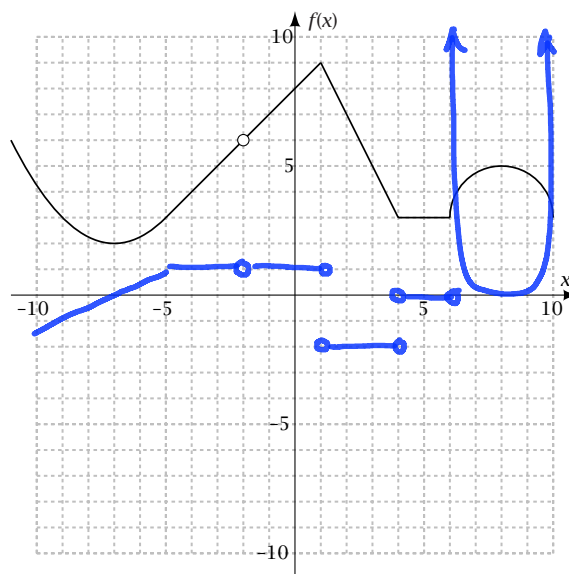
2.



3.



4.



5. What did you learn as a result of doing this Exploration that you did not know before?