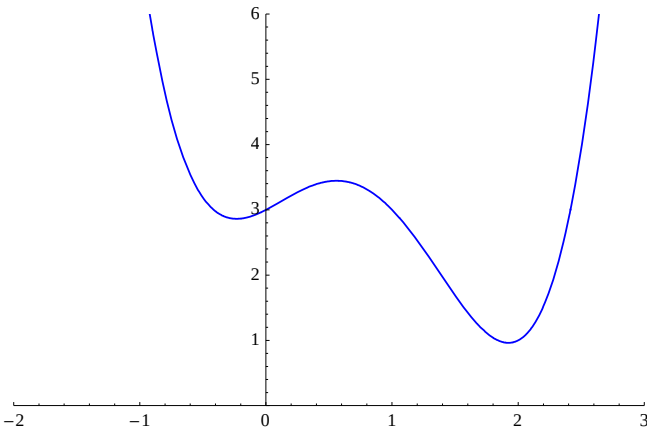
Wladis, BMCC/CUNY

Project 2: Graphing Derivatives

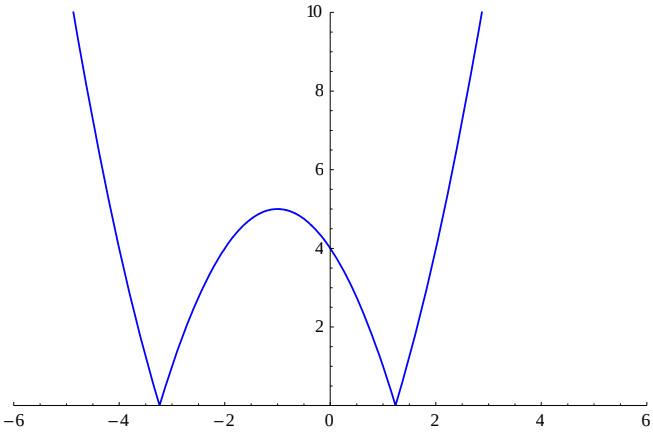
In your explanations for this project, you should explain where key points are and how you know they are there: where is the derivative positive or negative, where is it increasing or decreasing, where is it zero or undefined?

For each of the following problems, graph $f'(x)$, using the graph of $f(x)$. Rotate through the rolls of *Prover* and *Explainer*, so that each student plays a different role for each problem. The *Prover* should draw the graph step-by-step, and the *Explainer* should explain each step.

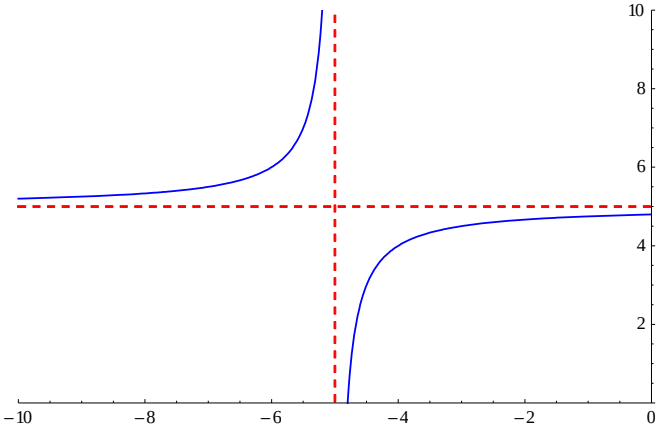
1. $f(x)$



2. $f(x)$

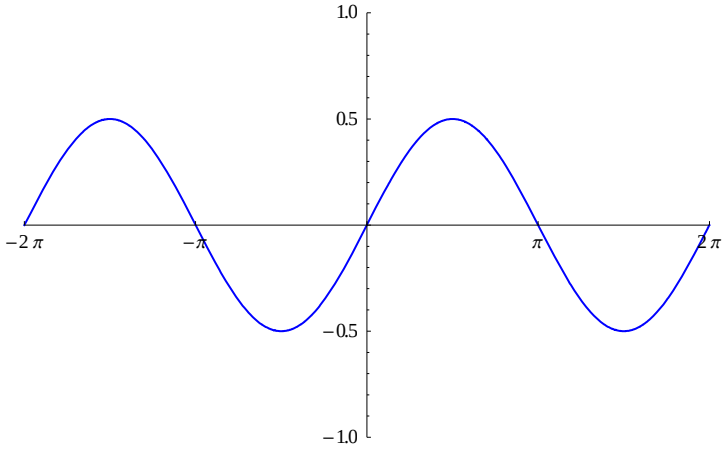


3. $f(x)$

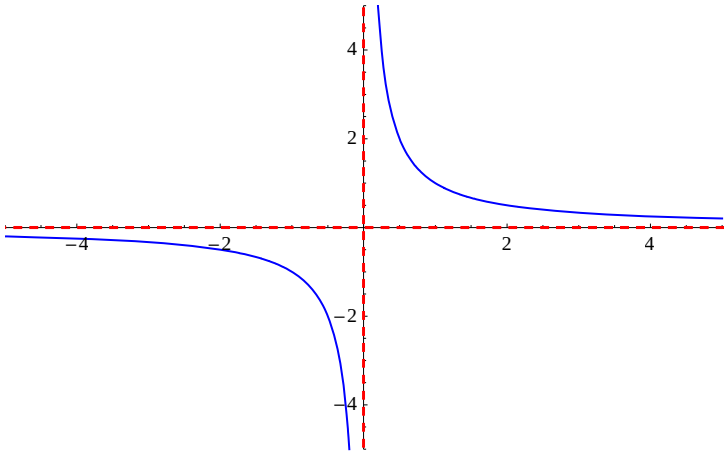


For each of the following problems, graph $f(x)$, using the graph of $f'(x)$. Rotate through the rolls of *Prover* and *Explainer*, so that each student plays a different role for each problem. The *Prover* should draw the graph step-by-step, and the *Explainer* should explain each step.

4. $f'(x)$



5. $f'(x)$



6. $f'(x)$