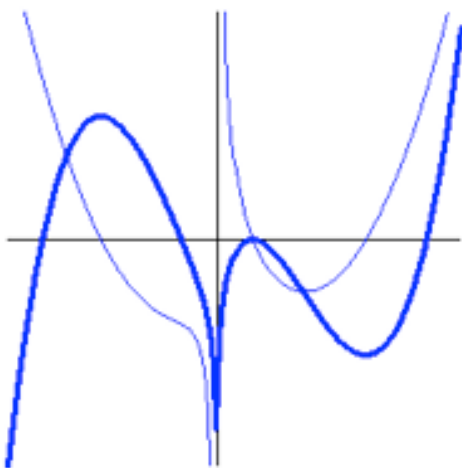
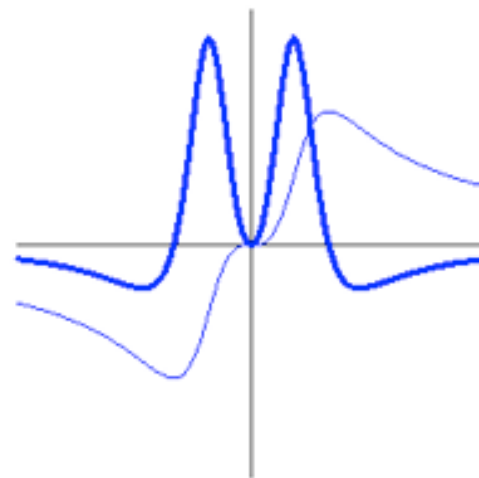


1. In *a* and *b* below, one curve is f and the other is f' . In each graph, identify f and f' .

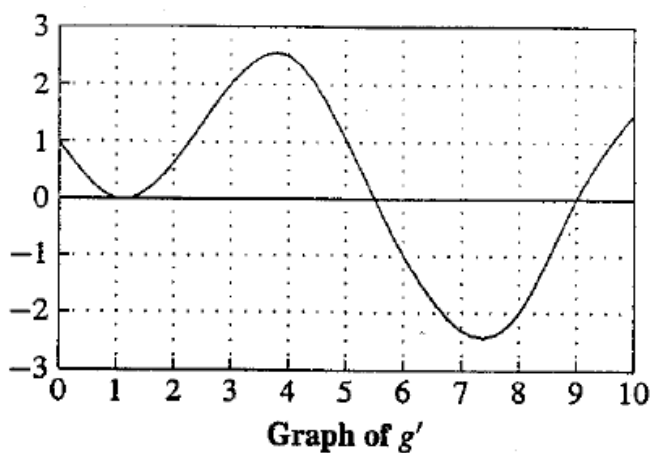
a)



b)



2. The graph of g' , the derivative of $g(x)$ is shown below. Answer the questions below and justify your answer.



a. Where does $g(x)$ have stationary points?

b. Where does $g(x)$ have a local maximum? A local minimum?

c. The graph of g' has a local maximum at $x=3.8$ and a local minimum at $x=7.4$. What does this information tell you about the graph of $g(x)$?

d. Is $g(x)$ concave up or down at $x=5$? At $x=8$?

e. Given that $g(0)=0$, sketch the graph of $g(x)$ on axes above.

3. The graph below shows f , f' , and f'' . Which is which? Explain your reasoning.

