

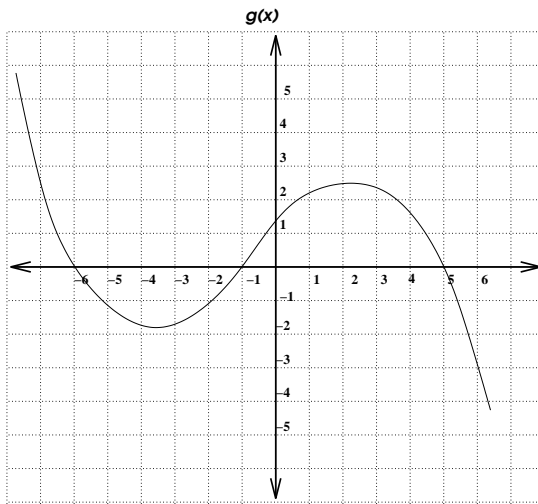
Week in Review # 4

Section 2.1

Things to know:

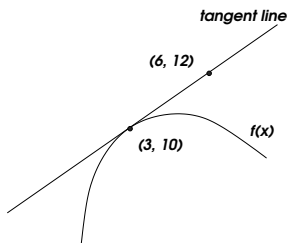
- Know how to compute derivatives at a point from a graph or chart.
 - Know the concept of the derivative at a point.
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1. Use the graph of $g(x)$ to answer these questions.

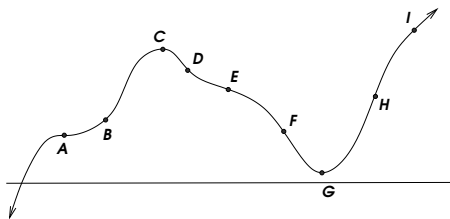


- Where is $g(x)$ positive?
 - Where is $g(x)$ negative?
 - Estimate $g'(3)$.
 - Estimate $g'(2)$.
 - Estimate $g'(-3)$.
2. Use the graph of $f(x)$ to fill in these blanks.

$$f(\underline{\quad}) = \underline{\quad} \qquad f'(\underline{\quad}) = \underline{\quad}$$



3. Use the points on the graph to answer these questions.



- At which points is the derivative zero?
- At which points is the derivative positive?
- At which points is the derivative negative?
- At which point is the derivative the largest?
- At which point is the derivative the least?

4. Use the table to estimate the derivatives.

x	1	1.5	2	2.5	3	4	7	12	14
f(x)	1	3	6	8	12	14	25	32	42

- $f'(2) =$
- $f'(1) =$
- $f'(7) =$
- $f'(13) =$

5. Estimate the derivative for $f(x) = x^x$ at $x = 2$ and at $x = 5$