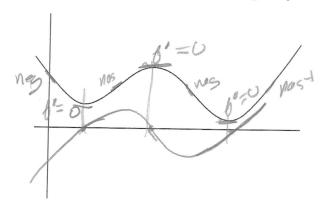
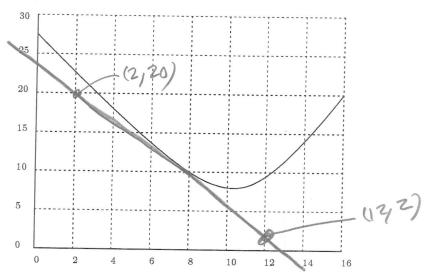
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You must show your work to get full credit.



1. The figure above gives the graph of a function y = f(x). Sketch the graph of the derivative, y = f'(x), on the same axis.



2. For the function with the graph above we wish to estimate the derivative f'(8).

(a) Draw the tangent line to the graph at the point where x=8 and label two points on the tangent line giving their coordinates.

(b) Use your labeled points to estimate f'(8).

$$6(8) = 9 \text{ lone of tousent} \qquad f'(8) \approx -68$$

$$= \frac{2}{\Delta x} = \frac{2 - 20}{12 - 2} = \frac{-18}{10} = -1.8$$

$$(\pm P \text{ you choose other youts You may have a different answer)}$$