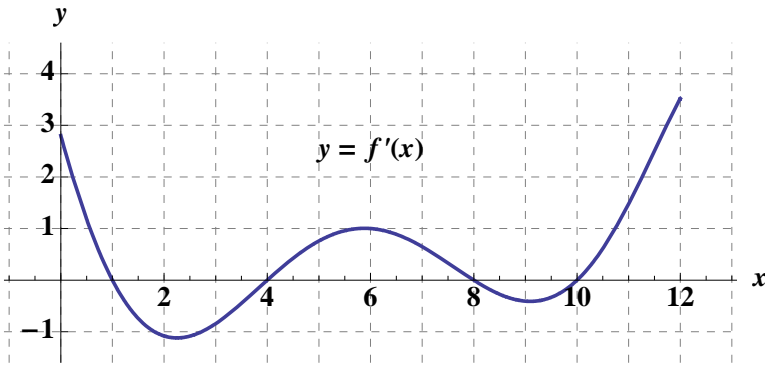


3. The graph of the **derivative** of the function f is given below. Use this graph to answer the following questions.



WARNING

The graph is for $y = f'(x)$
It is NOT the graph for $f(x)$!

- (a) On what intervals is f decreasing? Explain your answer.
- (b) Note that $f'(4) = 0$. Does f have a local extreme point at $x = 4$? If f does have a local extreme point at $x = 4$, is it a local maximum or a local minimum? Justify your answer carefully.
- (c) Is f concave up or concave down when $6 < x < 9$? Justify your answer carefully.