(1) Let $f$ be the function with the following graph.

Use the graph of $f$ to answer the following questions about $f'$:
(a) On which intervals is $f'$ negative? Justify your answer.

(b) On which intervals is $f'$ decreasing? Justify your answer.

(c) Where does $f'$ achieve its maximum value? Estimate this value of $f'$. 
(2) The graph of a function $f$ is shown below. (NOTE: $f$ has an inflection point at $x = 1$; it has stationary points at $x = -4$ and $x = 6$.)

For which values of $x$, if any, is $f''(x)$:

(a) positive?

(b) negative?

(c) zero?