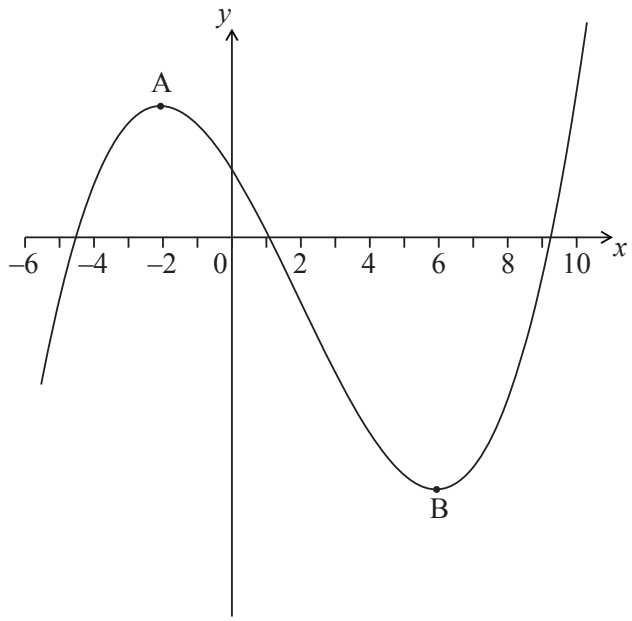
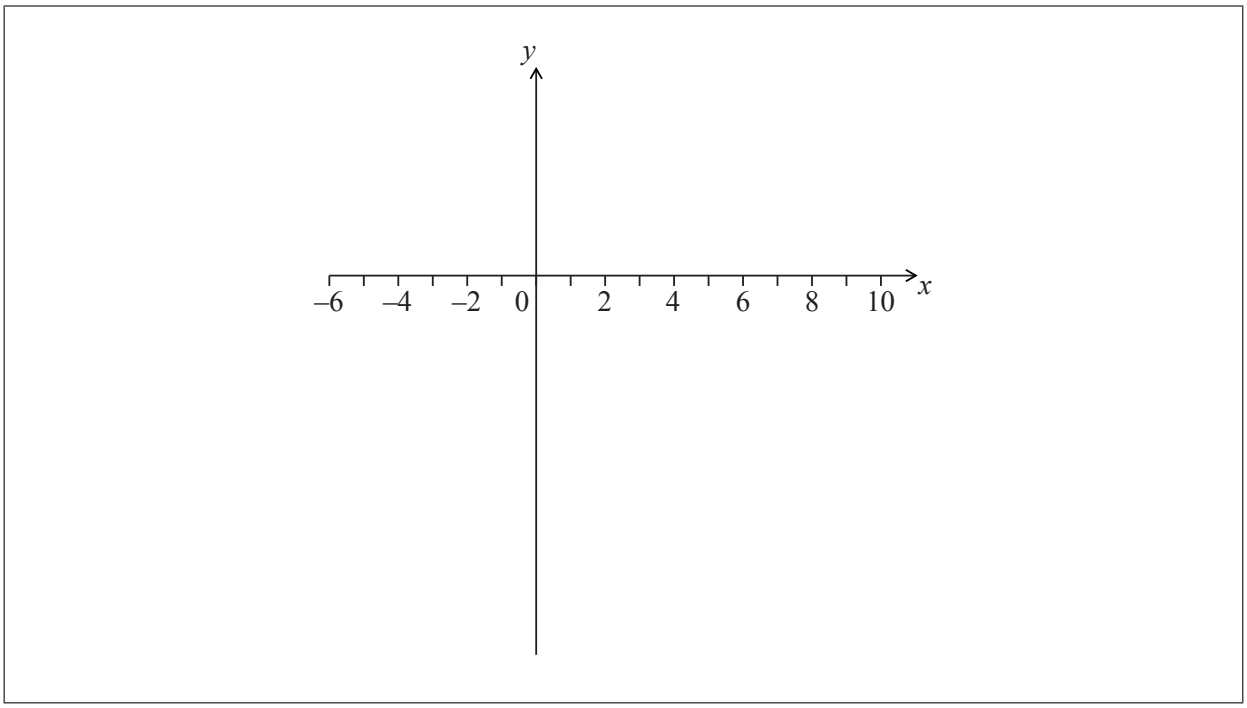
6. *[Maximum mark: 6]*

The following diagram shows part of the graph of $y = f(x)$.



The graph has a local maximum at A, where $x = -2$, and a local minimum at B, where $x = 6$.

(a) On the following axes, sketch the graph of $y = f'(x)$. *[4]*



(b) Write down the following in order from least to greatest: f (0), f '(6), f "(-2)