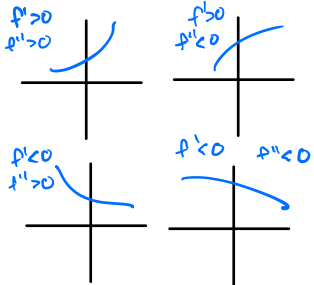
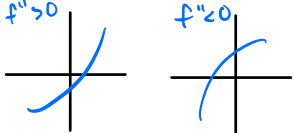
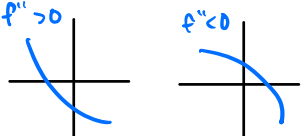
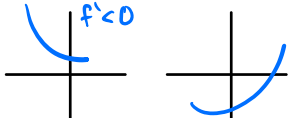
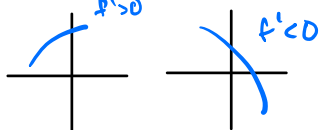
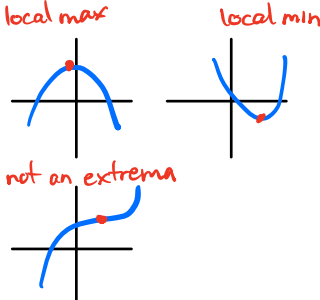
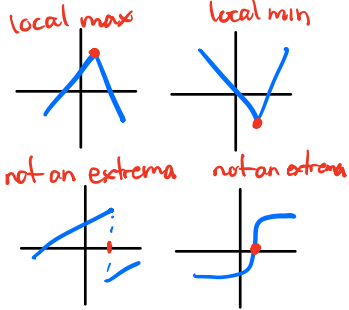


| f | f' | f'' | sketch eg |
|-------------------------------------|-------------------------|-------|---|
| > 0 | N/A | N/A |  |
| < 0 | N/A | N/A | |
| inc. | > 0 | N/A |  |
| dec. | < 0 | N/A |  |
| CU | inc. | > 0 |  |
| CD | dec. | < 0 |  |
| DNE | DNE | DNE | |
| C.P. potential local extremum | 0 | N/A |  |
| C.P. | DNE in domain of f | DNE |  |

| | |
|-----------|--------|
| local min | - to + |
| local max | + to - |

| | | |
|---------------------|-----------|--------|
| potential P.O.I. | C.P. | 0 |
| potential P.O.I. | C.P. | DNE |
| P.O.I. | local min | - to + |
| | local max | + to - |

5.9 quiz Q2

The function f is differentiable and increasing on the interval $0 \leq x \leq 6$, and the graph of f has exactly two points of inflection on this interval. Which of the following could be the graph of f' , the derivative of f ?

