Mathematics 122 Quiz #14   Name:

Sketch the graph of a function $y = f(x)$ so that
- $f(1) = 3$,
- $f(4) = 7$,
- $f(6) = -1$,
- $f'(x) < 0$ for $x < 1$,
- $f'(x) > 0$ for $1 < x < 4$,
- $f'(x) < 0$ for $4 < x < 6$, and
- $f'(x) > 0$ for $6 < x$.

Your graph should not have any sharp corners.