



Assume the sign of f'' is constant on an interval I . Then

- $f'' > 0$ on $I \iff f'$ is increasing on $I \iff f$ is concave up on I
- $f'' < 0 \iff f'$ decreasing \iff down
- $f'' = 0$ on $I \iff f'$ is constant $\iff f$ is straight on I