

## RELATIONSHIP OF $f''$ TO INFLECTION POINTS (§4.3)

FIRST find the values of  $x$  where  $f''(x) = 0$  or  $f''(x)$  does not exist

Using these Numbers

Use a sign chart and look to the left and right of these numbers

... OR ...

Look at a graph of the second derivative and see

**When  $f''(x)$  changes sign then there is an inflection point**