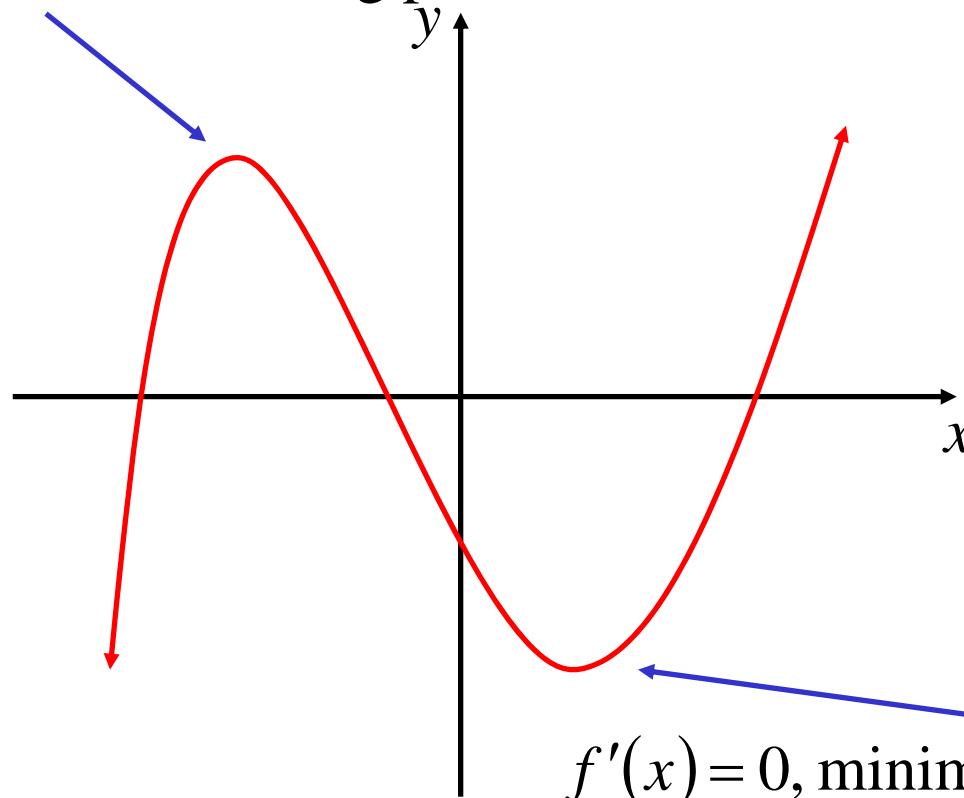


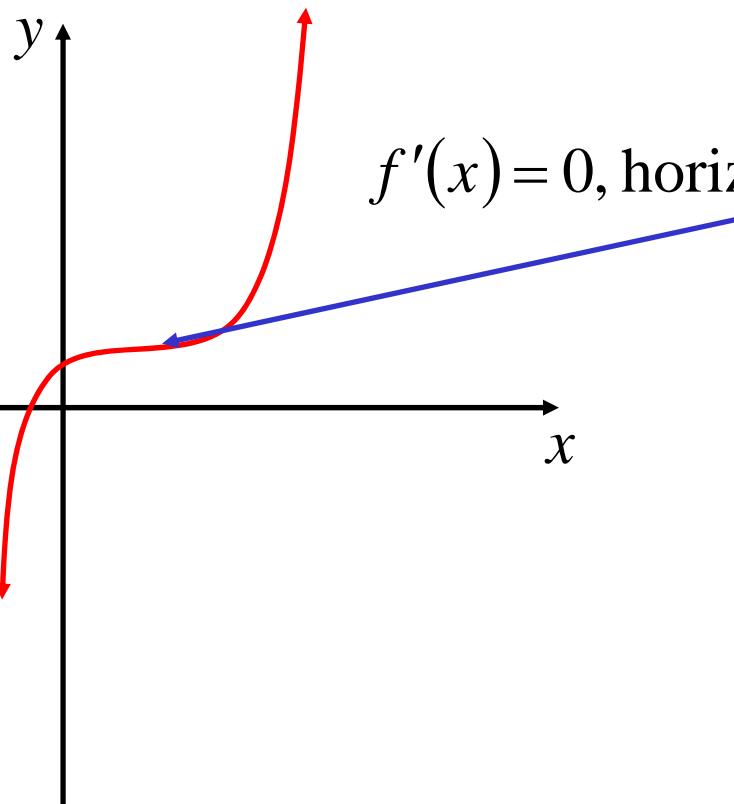
Critical Points

Critical points occur when $\frac{dy}{dx} = 0$ or is undefined

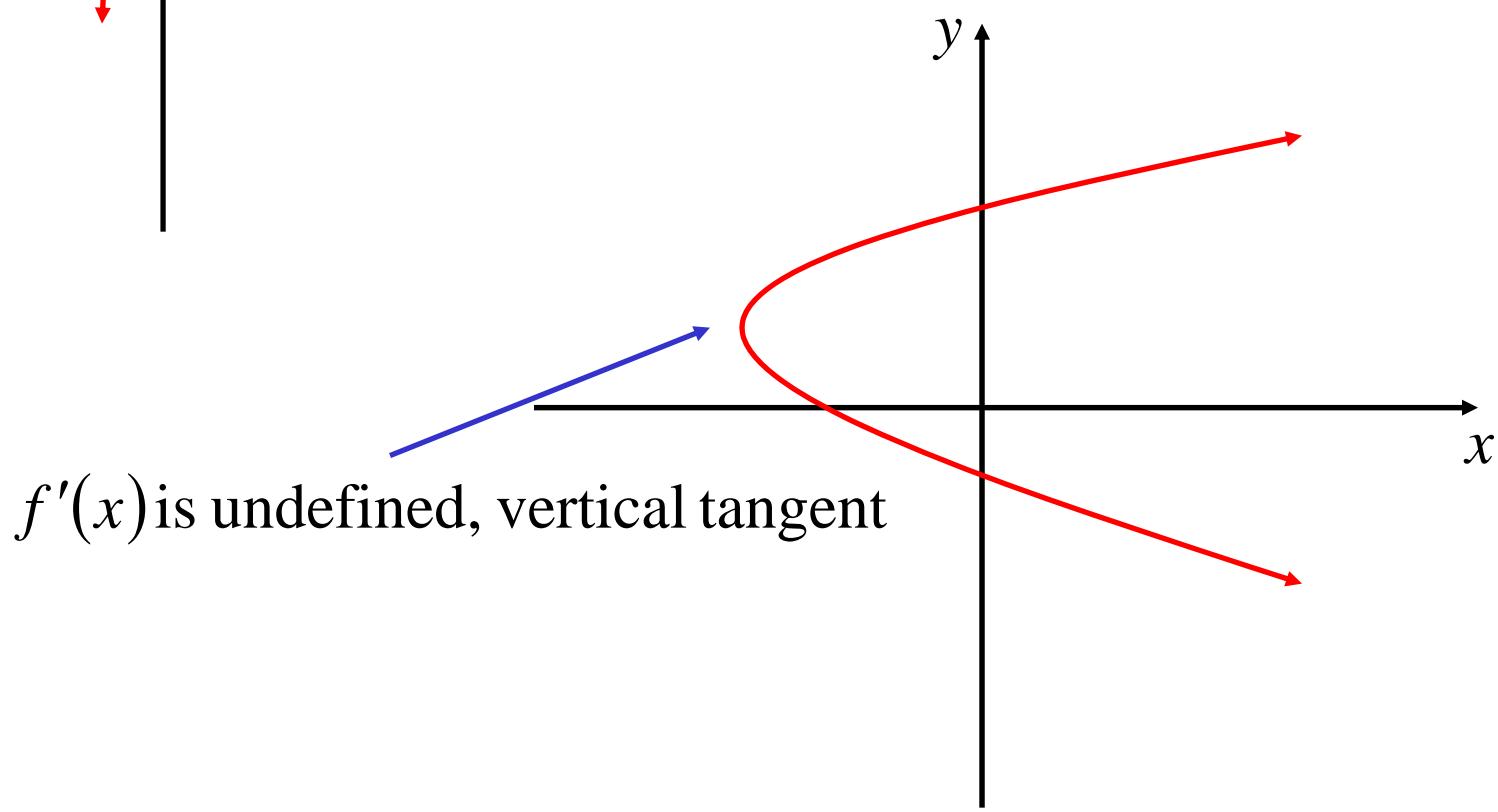
$f'(x) = 0$, maximum turning point



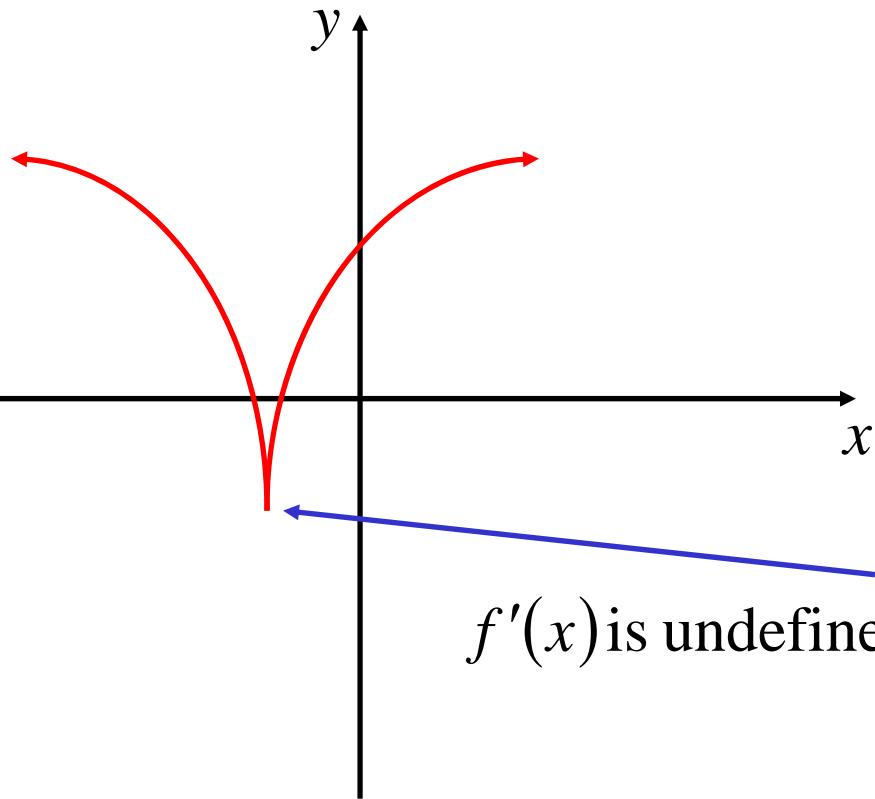
$f'(x) = 0$, minimum turning point



$f'(x) = 0$, horizontal point of inflection



$f'(x)$ is undefined, vertical tangent



$f'(x)$ is undefined, "cusp" curve is not continuous
minimum point

Exercise 10C; 1, 2ace etc, 3, 5, 8, 10