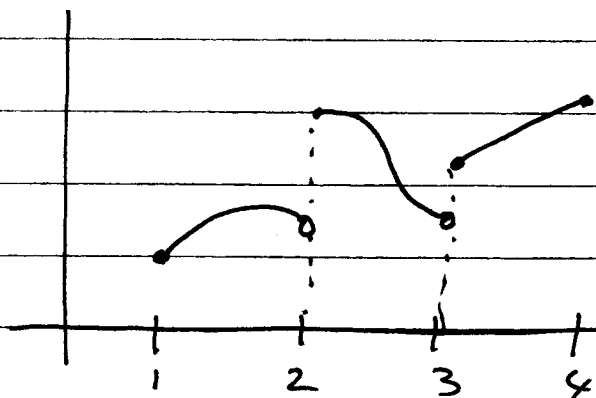
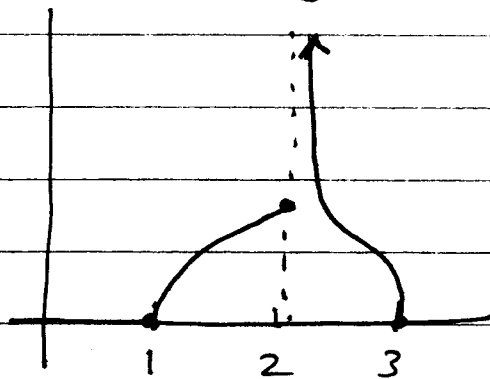


(4)

Definition A function $f(t)$ is piecewise continuous on a finite interval $[a, b]$ if it is continuous at every point in $[a, b]$ except for possibly a finite number of points at which $f(t)$ has a jump discontinuity.



piecewise CTS



not piecewise CTS

$f(t)$ is piecewise continuous on $[0, \infty)$ if it is piecewise continuous on $[0, N]$ for each $N > 0$.

Definition A function $f(t)$ is of exponential order α if there are constants M, T :

$$|f(t)| \leq M e^{\alpha t} \quad \text{for all } t \geq T$$

or

$$\left| \frac{f(t)}{e^{\alpha t}} \right| \leq M \quad \text{for all } t \geq T.$$

