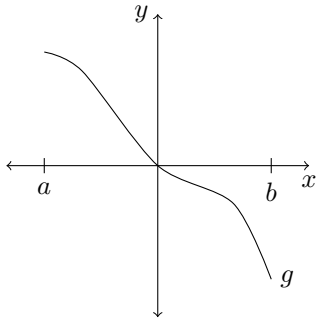


$f$  is increasing on the interval  $(a, b)$



$g$  is decreasing on the interval  $(a, b)$