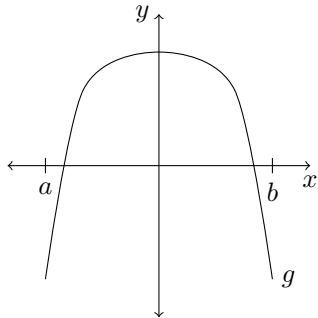


$f$  is concave up on the interval  $(a, b)$



$g$  is concave down on the interval  $(a, b)$