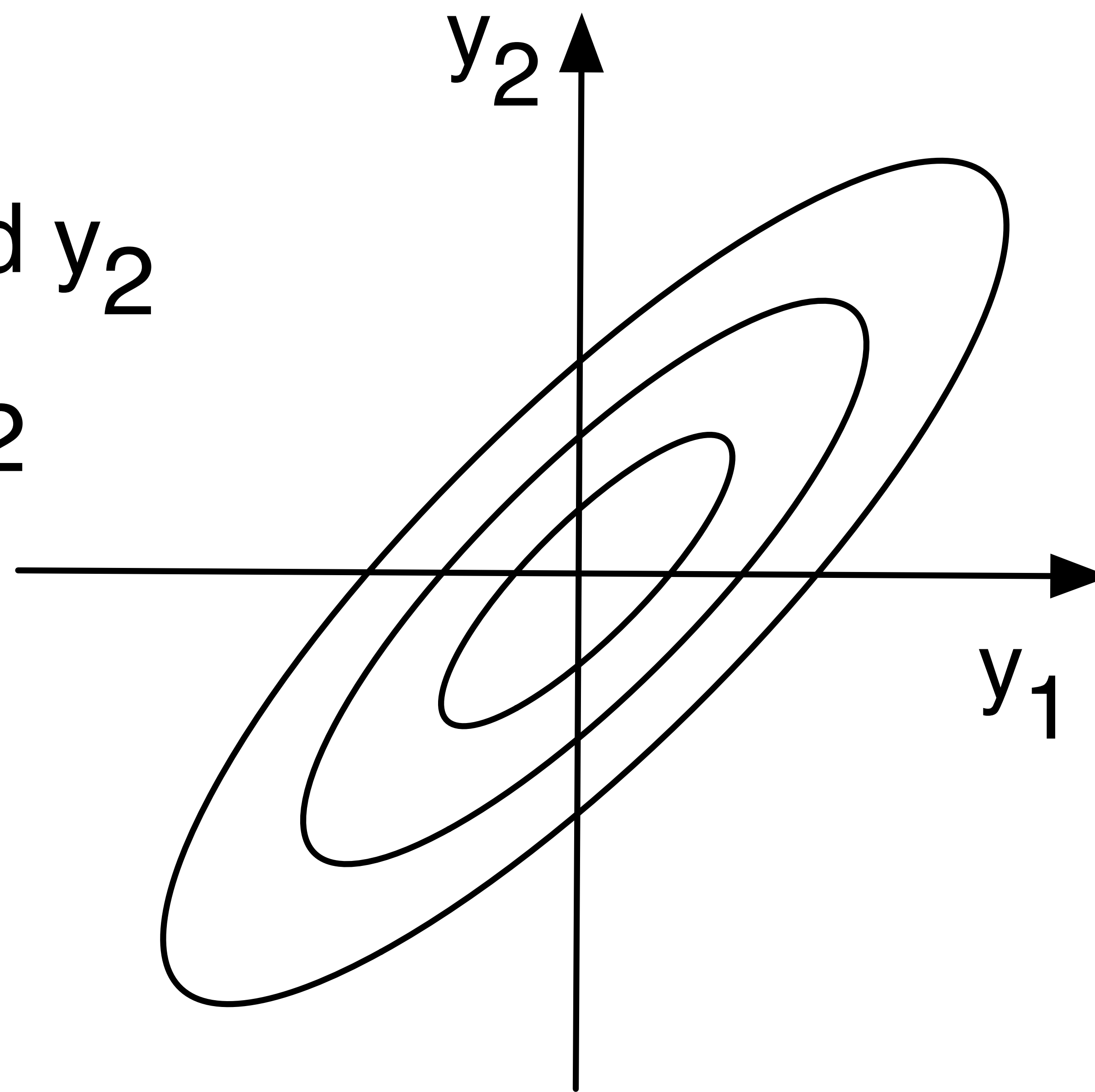
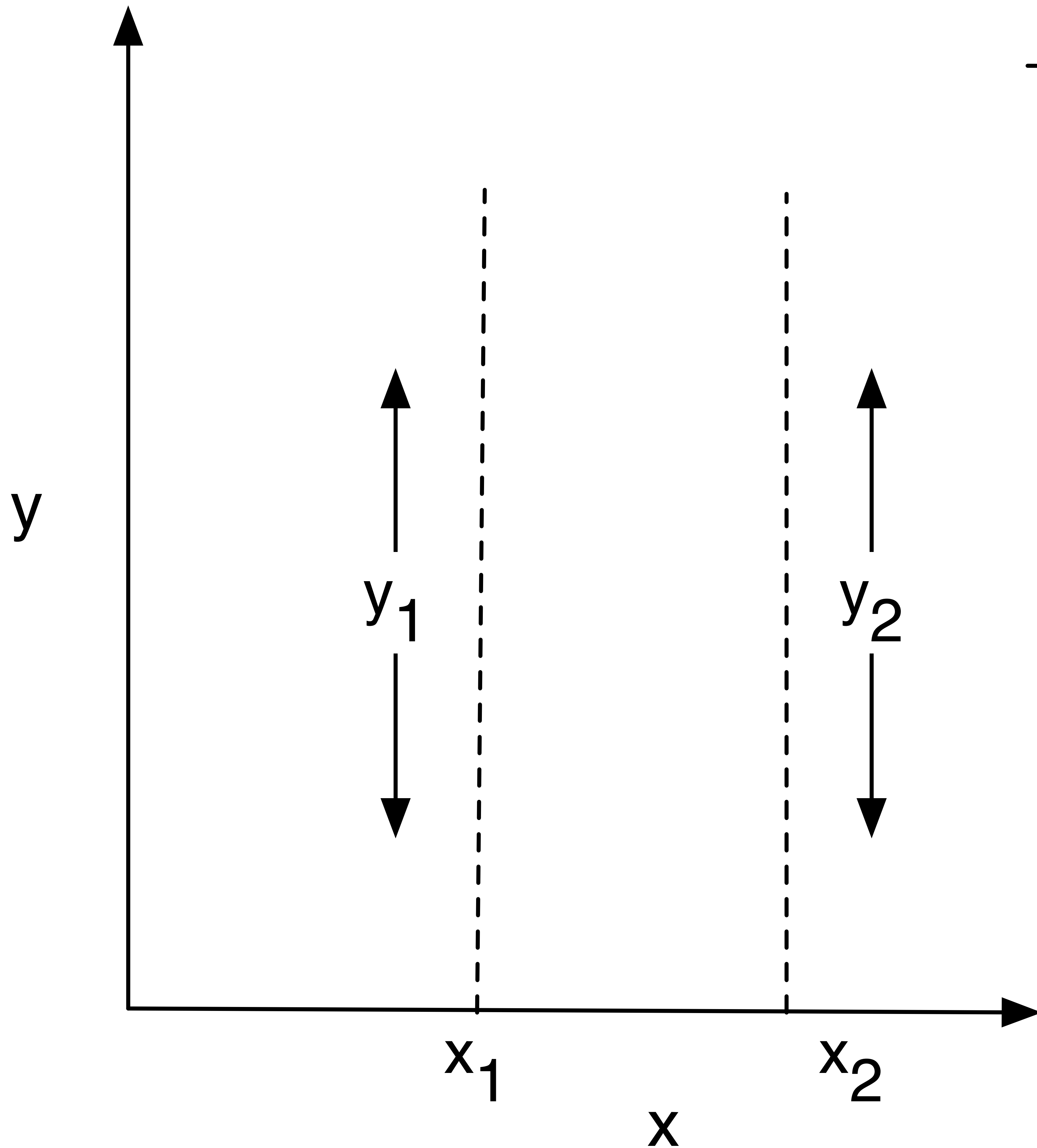
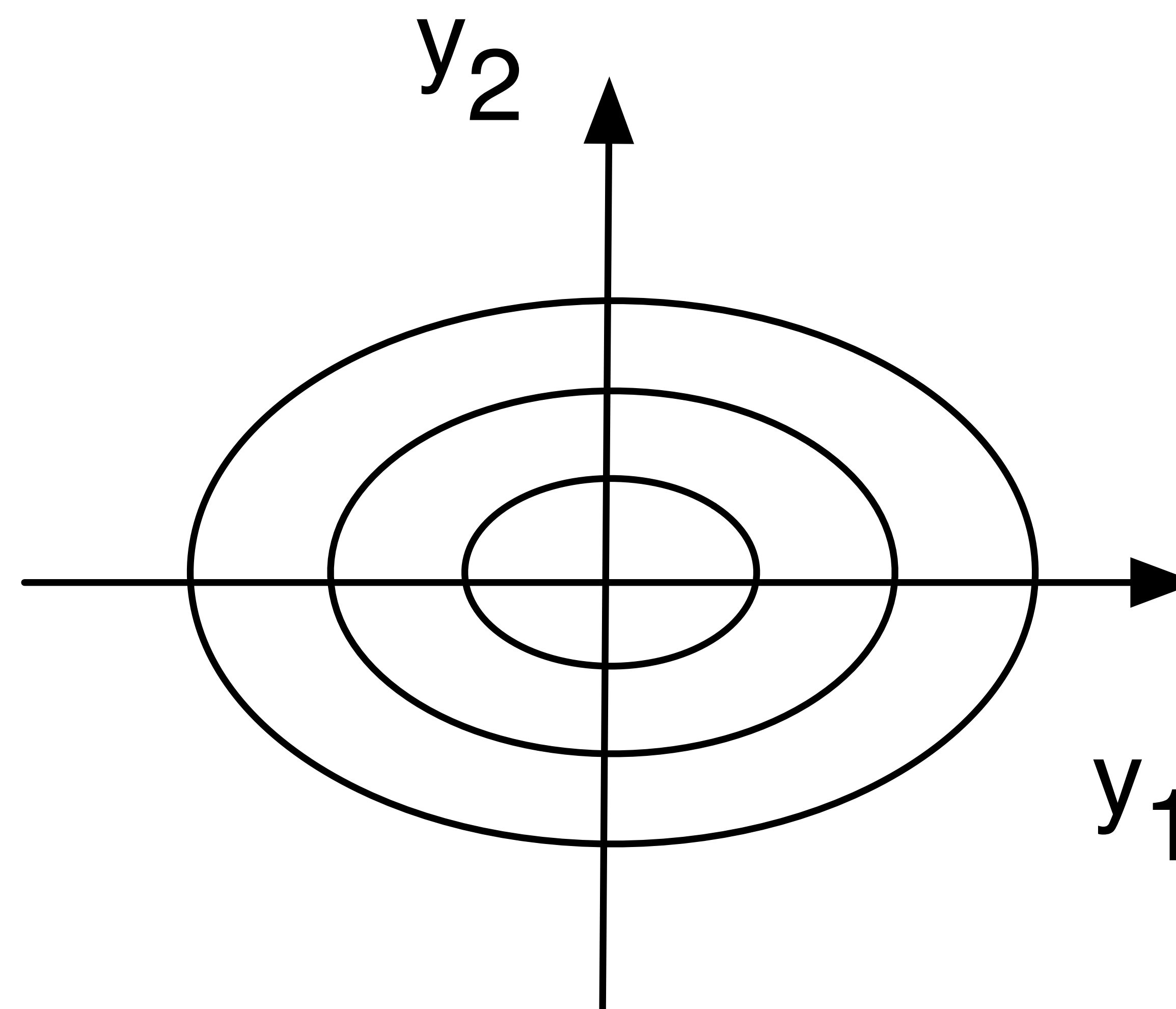


Covariance between  $y_1$  and  $y_2$   
is a function of  $x_1$  and  $x_2$



High covariance will result in  
smooth functions  
( $y_1$  and  $y_2$  must be similar)



Low covariance will  
result in smooth  
functions ( $y_1$  and  $y_2$   
will not necessarily be  
similar)