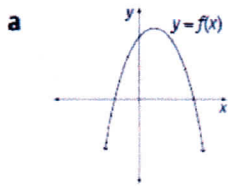
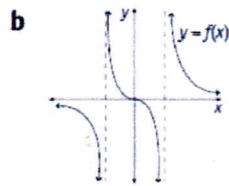


CONTINUITY AND SMOOTHNESS OF A FUNCTION OVER AN INTERVAL

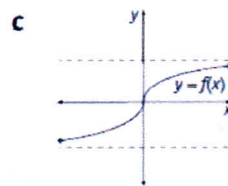
Question 1: State whether the function is continuous or discontinuous



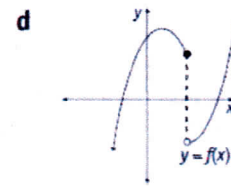
continuous over \mathbb{R}



discontinuous over \mathbb{R}

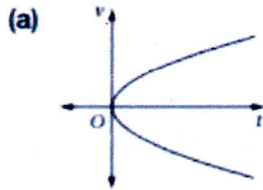


continuous over \mathbb{R}

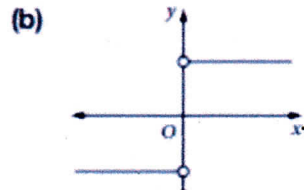


Discontinuous over \mathbb{R} .

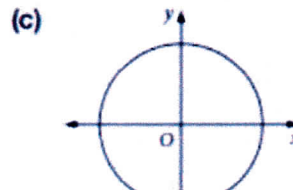
1 Indicate whether each graph is continuous or discontinuous.



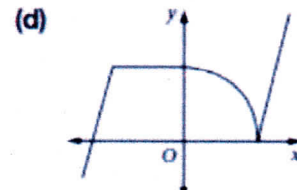
continuous



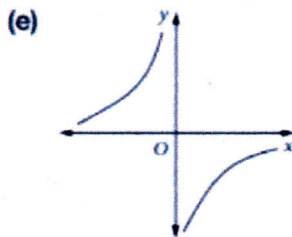
discontinuous over \mathbb{R}



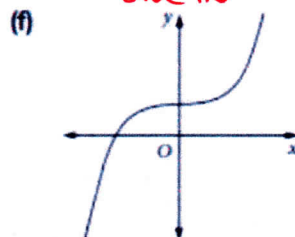
continuous



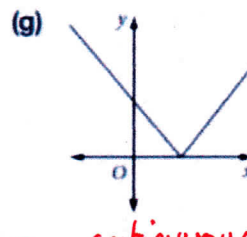
continuous over \mathbb{R}



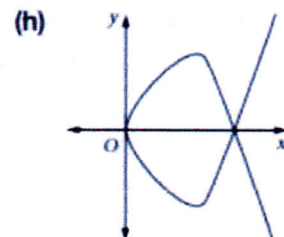
discontinuous over \mathbb{R}



continuous over \mathbb{R}



continuous over \mathbb{R}



continuous.

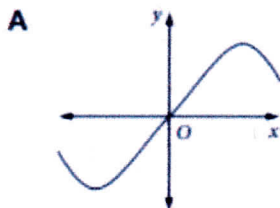
2 In question 1, which curves could be called smooth?

Smooth = a) c) f) h)

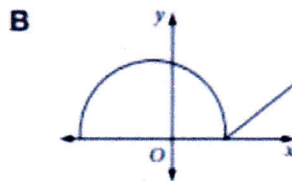
Not smooth = b) d) e) g)

Remember = A discontinuous function cannot be smooth.

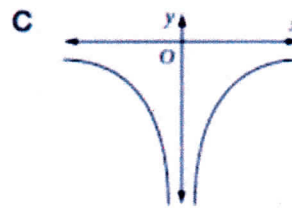
3 Which graph represents a smooth continuous curve?



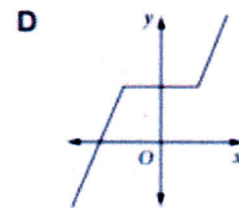
Yes



No



No



No