

x2, is continuous everywhere sinx is continuous everywhere

x 2 Sinx

a continuous function of a continuous function is a continuous function continuous function  $\sin(x^2)$  is continuous everywhere

In ( 1 + cosx)

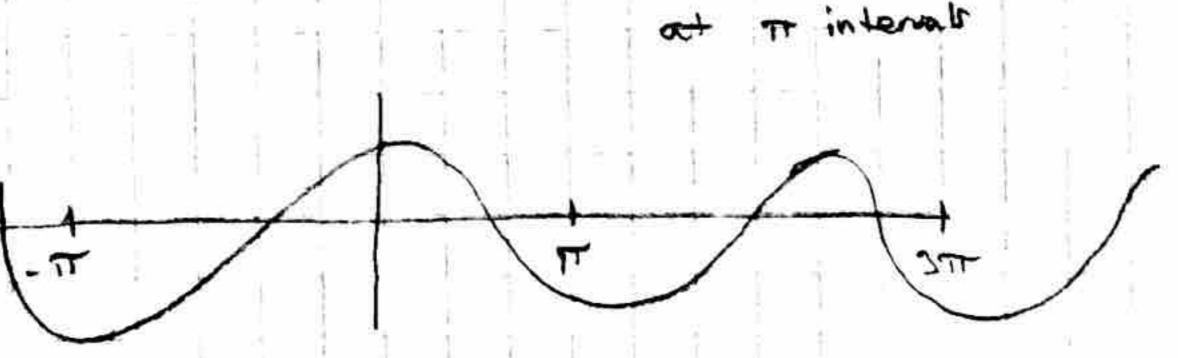
$$f(x) = 1 + \cos x$$

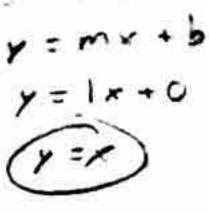
1 + cosx is continuous everywhere

Inx is continuous

1+ cosx is continuous where x>0

$$f(x) = \ln(1+\cos x)$$
 is continuous  
everywhere except at  
 $x = \pm \pi$ ,  $\pm 3\pi$ , etc  
 $x = -\pi$  intervals





- 1) x is continuous everywhere
- 3 sinx is continuous everywhere
- Tx . sinx or x sin(x) is continuous everywhere
- (s) cos(xsin(x)) is also continuous

cr a continuous function of a continuous function is also continuous"