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### **Solutions To Homework #3. 2X B X G Closed Ball Of Radius ...**

$x_n = x$  for all  $n \in \mathbb{N}$ . (b) Prove That Any Function  $f : X \rightarrow Y$  Is Continuous In Two Different Ways: First Using Sequential Definition Of Continuity And Then Using The  $\epsilon$ -Definition.  
 Solution: (a) (" Suppose That There Exists  $M \in \mathbb{N}$  And  $x_n \neq x$  such That  $x_n = x$  for All  $n \geq M$ . Then For Any  $\epsilon > 0$  We Have  $d(x_n, x) = 0$