Worksheet: Relations and Functions (Class 12)

NIOS · Class 12 · Mathematics · 3 questions · 13 marks

Name: _____ Date: _____ Score: _____ / 13

Q1. Show that the relation R in the set $f integers defined by R = {(a,b) : 2 divides (ab)} is an equivalence relation. *[3 marks]*

Q2. Let f: ' be defined by f(x) = 2x + 3. Show that f is bijective and find f{. *[4 marks]*

Q3. Let f: A 'B and g: B 'C be two functions. Prove that if both f and g are onto, then g f: A 'C is also onto. Is the converse true? Justify. *[6 marks]*