#### MCA Sem 1, Mathematics

#### Assignment 1

- A = {1, 2, 3}
   B = {(1,1),(2,2),(1,2),(3,3),(2,1),(1,3)}
   Show that B is not equivalence relation.
   And also find graph and matrix of B.
- A = {a, b, c, d, e}
   B = {(a,a),(a,c),(c,d),(e,b),(c,d),(b,b)}
   C = domain of B
   D = range of B
   Find C, D, C ∪ D, C ∩ D
- A = {10, 20, 30, 40}
   Find B = { (a, b) | a ≤ b }
   C = { (a, b) | a > b }
   Find B<sup>c</sup>, C<sup>c</sup>, B<sup>-1</sup>, C<sup>-1</sup>
   And also find graph and matrix of B.
- 4. A = {3, 6, 9, 12} B = {(3,3),(6,6),(12,12),(9,9),(3,9),(9,3)} Prove that B is compertible relation.
- A = {r, s, t, p}
   B = {(r,r),(s,t),(s,p),(s,s),(t,t),(t,p),(p,p),(r,p),(p,r)}
   Find B<sup>c</sup>, B<sup>-1</sup>
   And draw graph of B, B<sup>c</sup>, B<sup>-1</sup>
   Find matrix of B, B<sup>c</sup>, B<sup>-1</sup>
- A = {m, n, o}
   B = {(m,m),(n,n),(o,o),(m,o),(o,m)}
   Show that B is equivalence relation and find all equivalence class.

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M Tight



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