ALUNO: Layla Maria dos Santos Couto

Lista da 2ª Quinzena

1) a) (1,3), (2,5), (3,3)

b) (4,2), (5,3)

c) (5,0), (2,2)

d) (1,1), (3,9)

8) a) Reflexiva

b) simétrica

c) Simétrica e transitiva

d) Reflexiva e simétrica

e) Anti-simétrica

16) a) p = { (1,1), (2,3), (3,1) }

b) p = { (1,1), (2,2) }

c) p = { (1,2), (1,3), (3,2) }

d) p = { (1,2), (1,3), (2,3) }

e) p = { (1,2), (1,3), (2,1), (2,3), (3,1), (3,2) }

17) Não, pois podemos procurar apenas o fecho reflexivo, o simétrico e o transitivo de uma relação em um conjunto.

27) a) p^{-1} = { (2,1), (3,2), (3,5), (5,4) }

b) p = { (1,1), (4,4), (10,10) } → p^{-1} = { (1,1), (4,4), (10,10) }

c) p = { (2,4), (4,2) } → p^{-1} = { (4,2), (2,4) }

d) p = { (1,1), (1,4), (4,4) } → p^{-1} = { (1,1), (4,1), (4,4) }

e) p = { (2,10), (2,200), (10,200) } → p^{-1} = { (10,2), (200,2), (200,10) }

f) p = { (1,1), (1,2) } → p^{-1} = { (1,1), (2,1) }

g) p = { (1,1), (1,2), (1,3) } → p^{-1} = { (1,1), (2,1), (3,1) }