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ManvirKaur_Assignment3 x
7/31/2024 10:00:00 PM /usr/bin/python3.7 /usr/bin/manvir_kaur/Desktop/semester-3/CCSC-210/manvir_kaur_Assignments/manvir_kaur_Assignment3.py
1a) union of R1 and R2 {(3, 3), (1, 2), (2, 2), (1, 1), (1, 3), (1, 4)}
1b) intersection of R1 and R2 {(1, 1)}
1c) difference of R1 and R2 {(3, 3), (2, 2)}
1d) difference of R2 and R1 {(1, 2), (1, 3), (1, 4)}

2) S composition R
  -> {(4, 4), (3, 4), (3, 1), (3, 3), (4, 1)}

3) R composition R
  -> {(2, 4), (2, 1), (3, 4), (3, 1), (1, 1), (1, 4)}

4a) Ordered pairs:
  -> {(5, -5), (-10, 10), (-3, 3), (-4, 4), (-1, 1), (3, -3), (4, -4), (-6, 6), (10, -10), (-5, 5), (2, -2), (-7, 7), (8, -8), (9, -9), (0, 0), (1, -1), (6, -6), (-9, 9),
      (7, -7), (-8, 8), (-2, 2)}
4b) Reflexive?:
  -> False
4c) Symmetric?:
  -> True
4d) Antisymmetric?:
  -> False
4e) Transitive?:
  -> False

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