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Module 2 : Sets, Functions & Relations (?q=onlinecourse/course/43510)

Exercise: Properties of Relations

- **วิชชาภัทร จินดานาถ** previously submitted answers to this quiz/test on 02-Oct-2024 @ 03:20:11 and obtained **5** correct answers out of **5** .
- This test/quiz can be taken many times.
- Correct answers will NOT be revealed after submission.

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1　Let R = {(1,1),(1,2),(1,4),(2,3),(3,2)} and S = {(1,1),(2,3),(3,2),(3,5),(4,2),(4,3)} be the relations from {1,2,3,4} to {1,2,3,4,5}. Find n(R∪S), n(R∩S), n(R-S), n(S-R)

　　3 2 3 3

　　3 5 1 4

　　8 3 2 3

　　5 5 5 5

2　Consider the relation on the set {1, 2, 3, 4} given below and use it in question number 2-4.
R1 = {(1,1),(1,3),(2,2),(3,1),(3,3),(4,4)}
R2 = {(1,3),(2,2),(3,1)}
R3 = {(1,2),(2,3),(2,4),(3,1),(4,1)}
R4 = {(2,2),(2,3),(2,4),(3,2),(3,3),(3,4)}
Select the relation that is symmetric.

　　R1, R2

　　R2, R3

　　R3, R4

R1, R3

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3 Select the relation that is reflexive

R1

R2

R3

R4

---

4 Select the relation that is transitive.

R1, R4

R2, R3

R1, R2

R2, R3

---

5 Let R the relation from {1,2,3} to {1,2,3,4} with R={(1,1),(1,2),(2,3),(3,3),(3,4)} and S is the relation from {1,2,3,4} to {5,6} with S={(1,5),(3,6),(3,7),(4,5)}. Which choice is not in the composite of R and S.

(1,5)

(2,7)

(3,5)

(1,1)

Submit   the latest submission was made on 02-Oct-2024 @ 03:20:11

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q=onlinecourse/theatre/27032/HjqXBYA7h8if2Y3L8g)

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