

L2. Set Theory
Homework Assignment #2.

Exercise 1: Ex. 14, page 53.

Exercise 2: Ex. 18, page 53.

Exercise 3: Show that for any relations R, S, T :
 $(R \circ S) \circ T = R \circ (S \circ T)$.

Exercise 4: Show that for any relations F, G :
 $\text{dom}(F \circ G) = G^{-1}[\text{dom } F]$

Exercise 5: Ex. 30, page 54

Exercise 6: Ex. 34, page 61.

Exercise 7: Ex. 36, page 61.

Exercise 8: Ex. 45, page 64.

Exercise 9: Ex. 46, page 64.

Exercise 10: Ex. 58, page 65.

Deadline: Solutions should be delivered to the instructor (on paper or by email) by Thursday, December 4.