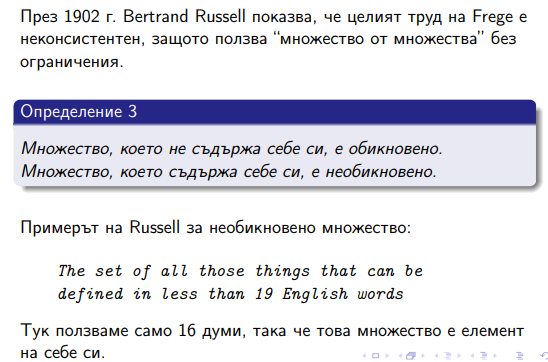
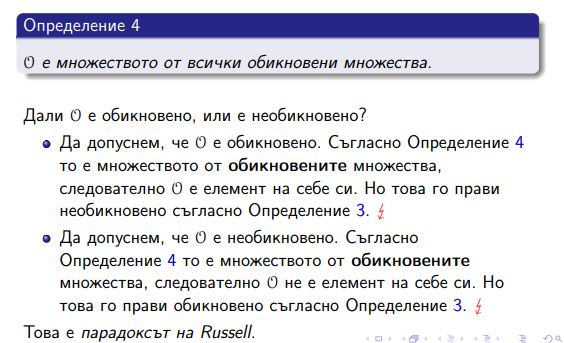
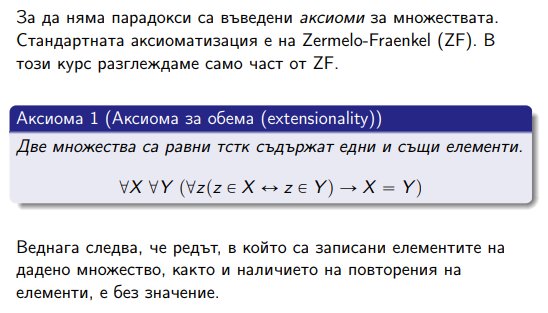
# **1. Аксиоматизация на множествата – аксиоми за обема, отделянето, степенното множество и индуктивно генерираните множества.**

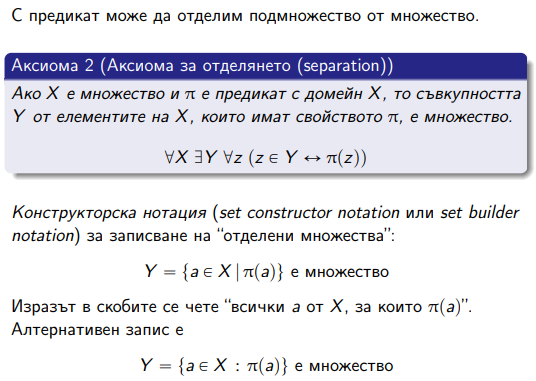


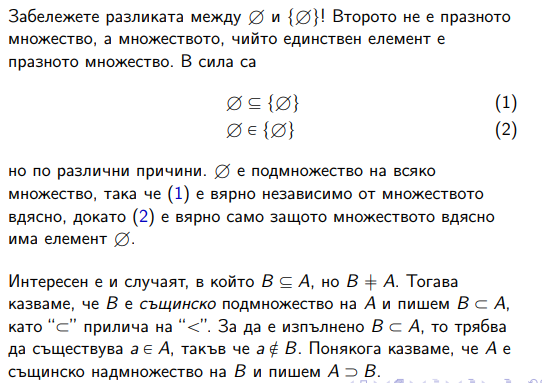
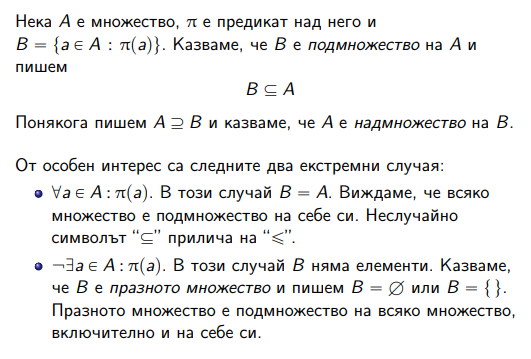


**- аксиома за обема**

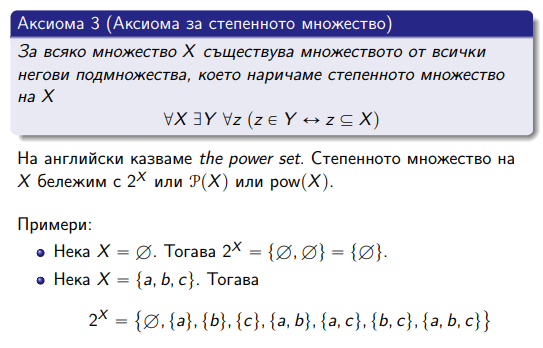


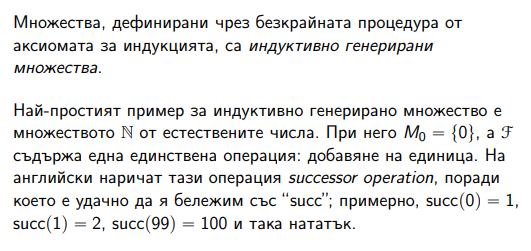
**- аксиома за отделянето**

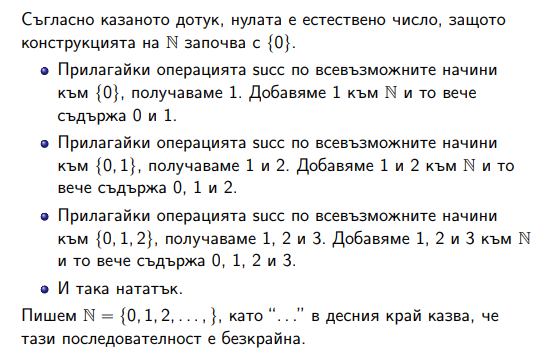




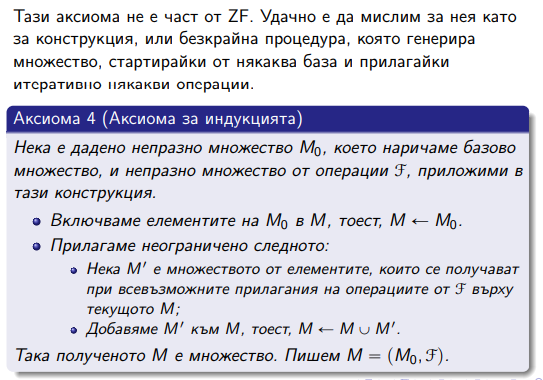
**- аксиома за степенното множество**



**- индуктивно генериране на множества**

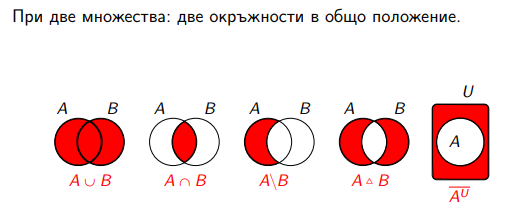
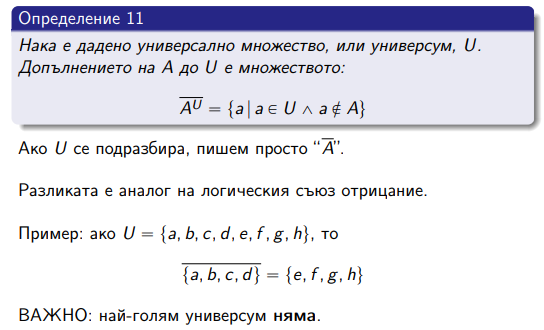
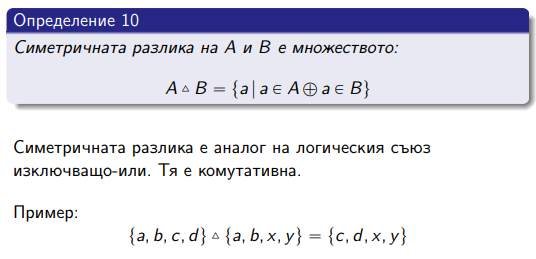
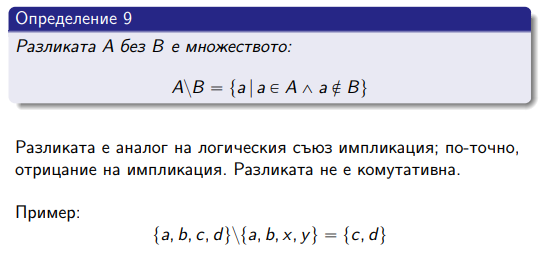
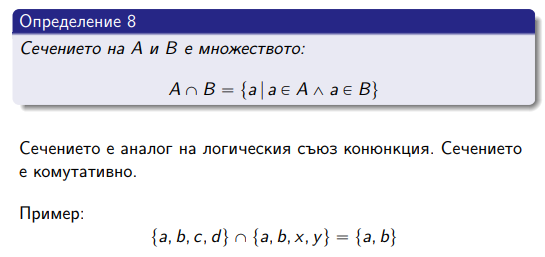
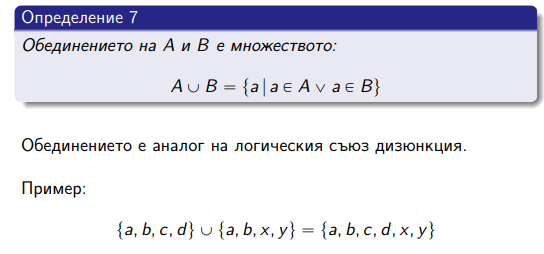
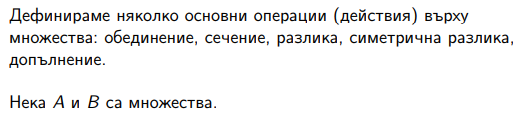


# **2. Математическа индукция.**

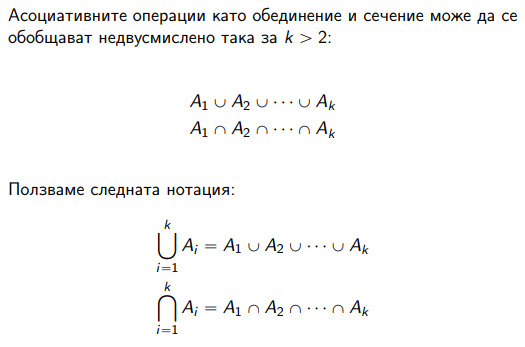
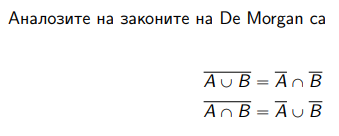
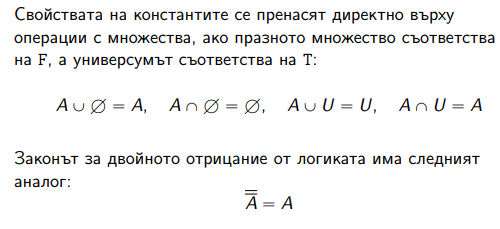
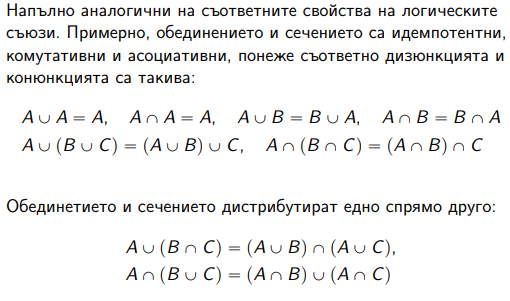


# **3. Основни операции върху множества и техните свойства.**

**- операции**

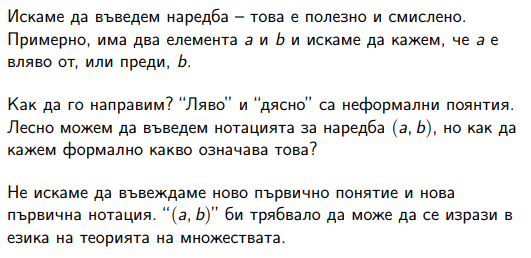


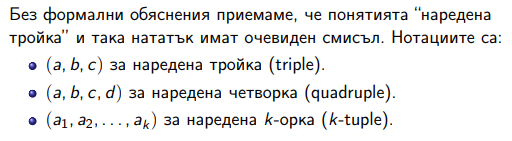
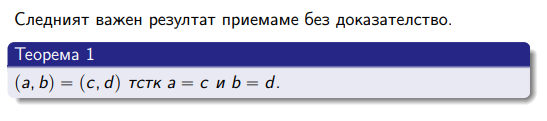
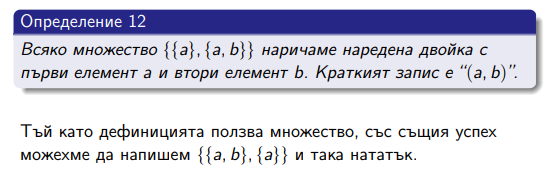
- **свойства**



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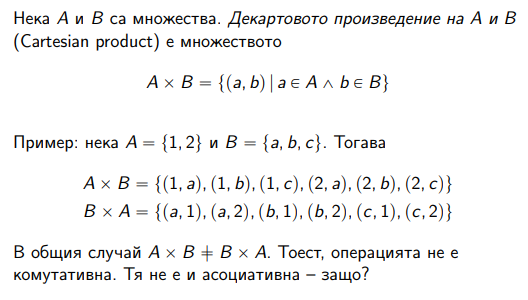
# **4. Наредена двойка и наредена n-орка.**



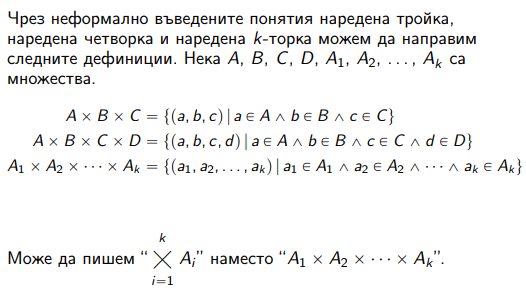


# **5. Декартово произведение и обобщено Декартово произведение на множества.**

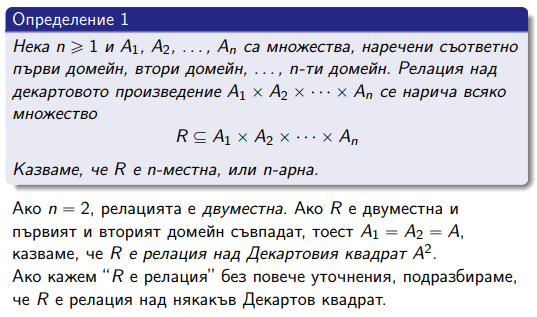
- **Декартово произведение**

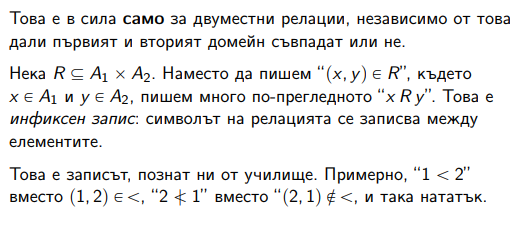
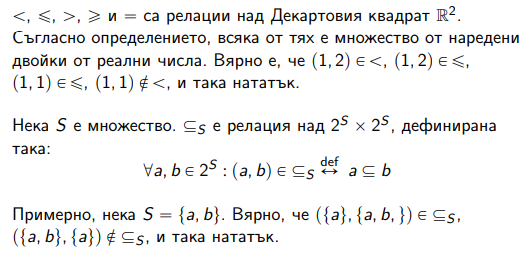


- **обобщено Декартово произведение**

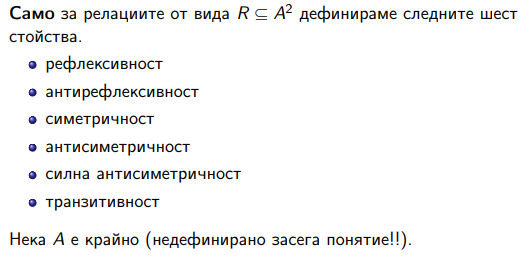


# **6. Релация над n домейна.**

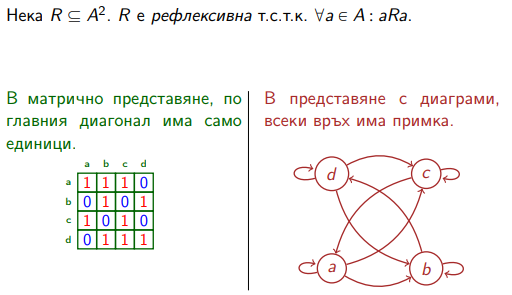




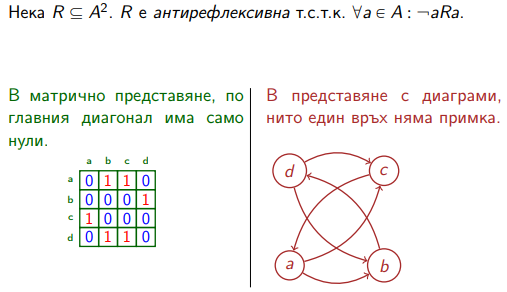
# **7. Свойства на бинарните релации.**



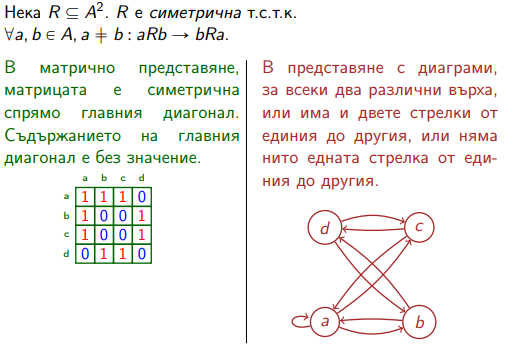
**- рефлексивност**



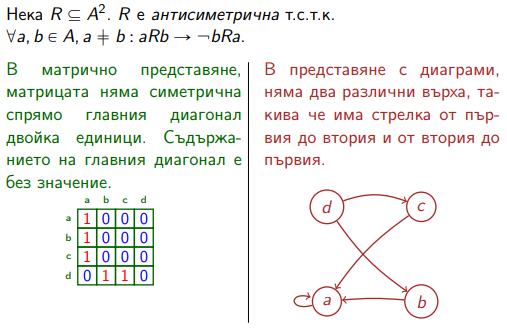
**- антирефлексивност**

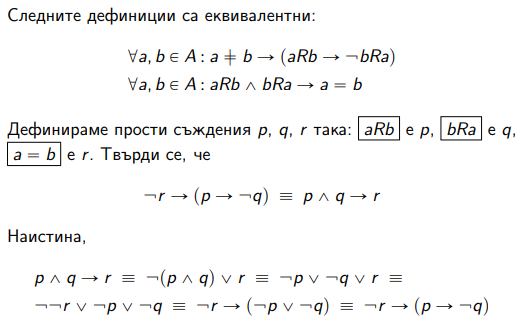
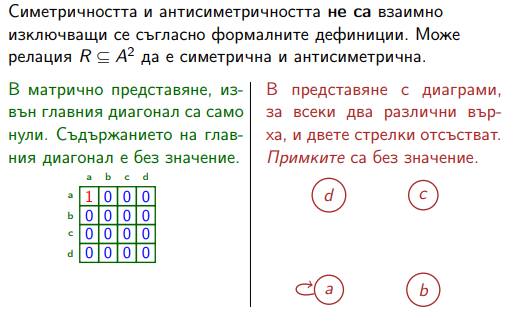


**- симтеричност**

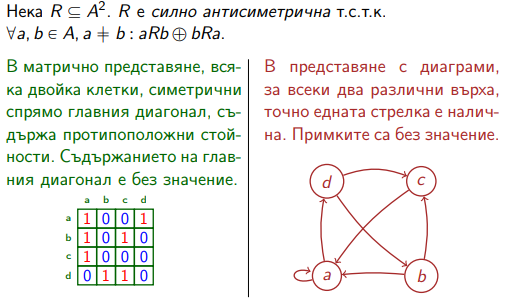


**- антисиметричност**

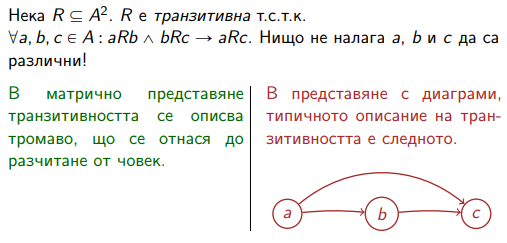


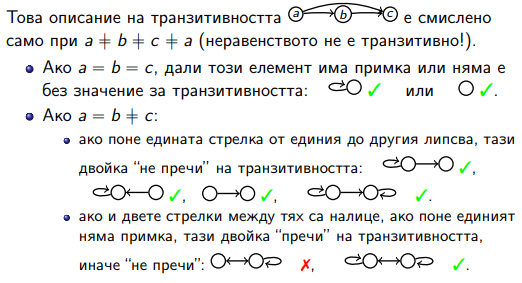


**- силна антисиметричност**



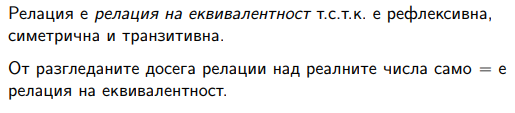
**- транзитивност**

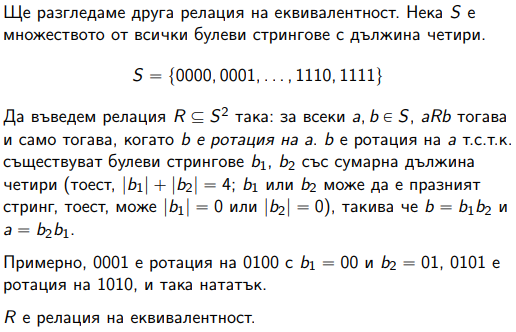




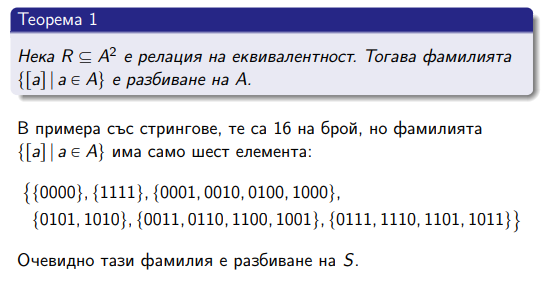
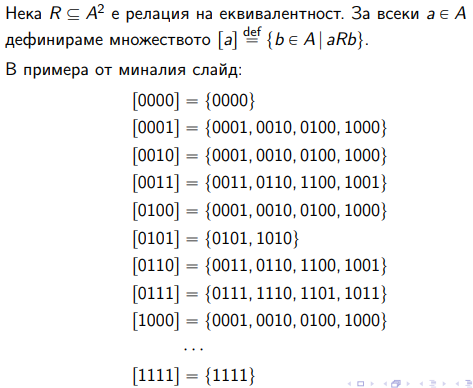
# **8. Релации на еквивалентост и класове на еквивалентност.**

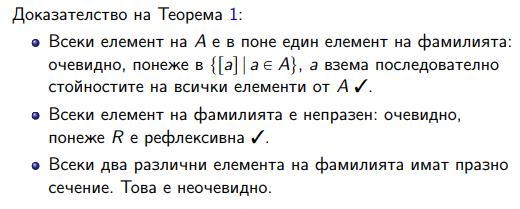
**- релация на еквивалентност**



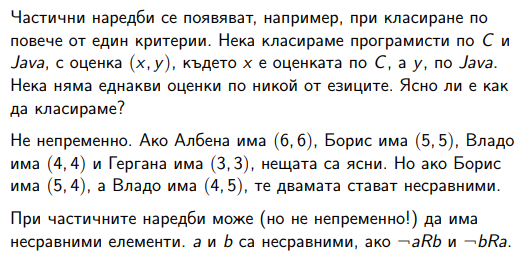
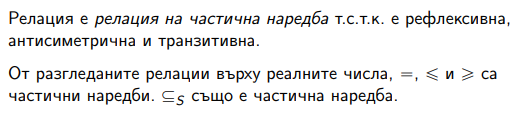


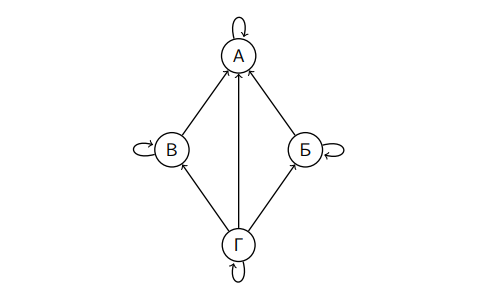
**- класове на еквивалентност**



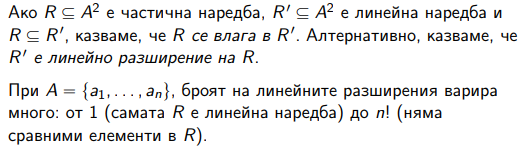


# **9. Релации на частична наредба.**

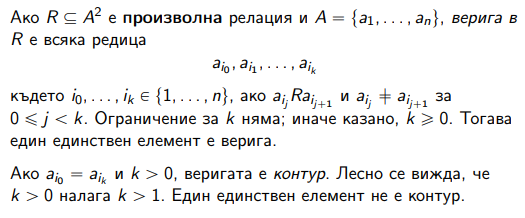


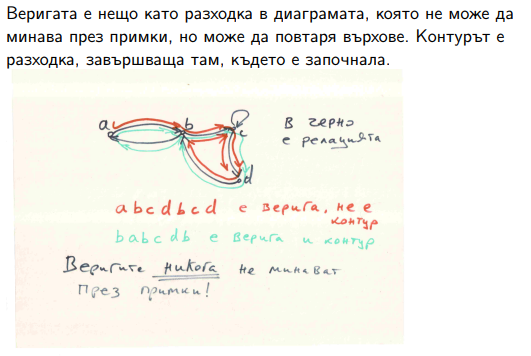


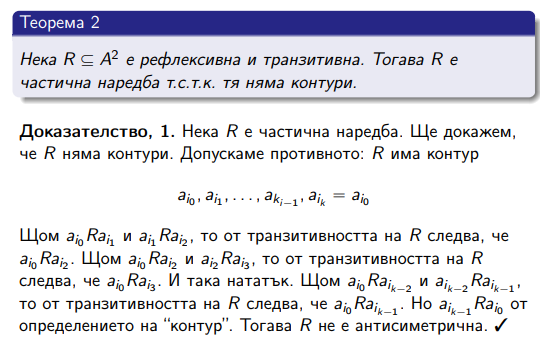
**- влагане на частична наредба в линейна (пълна) наредба**

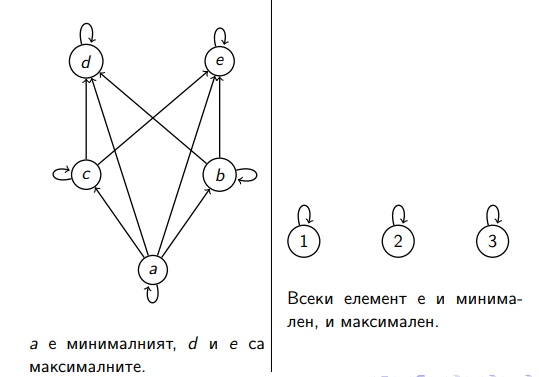
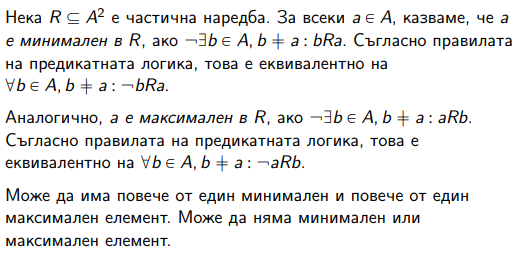


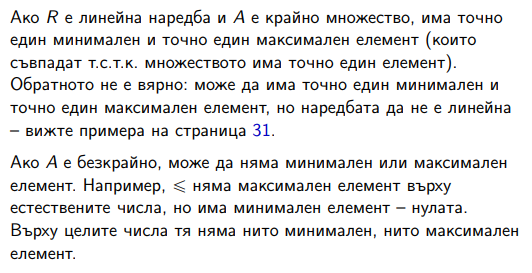
**- верига и контур**



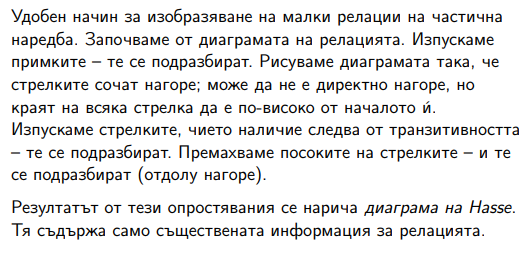


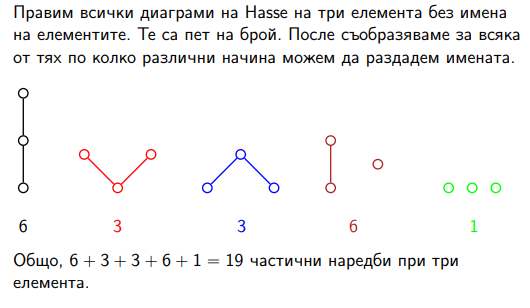
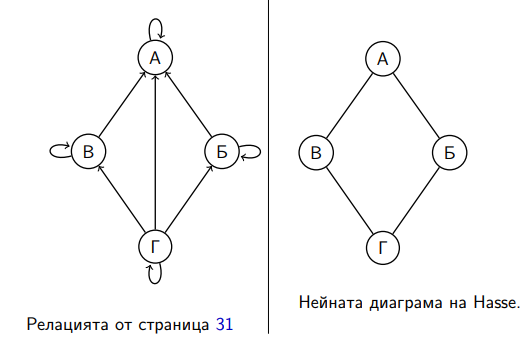


**- минимален и максимален елемент**

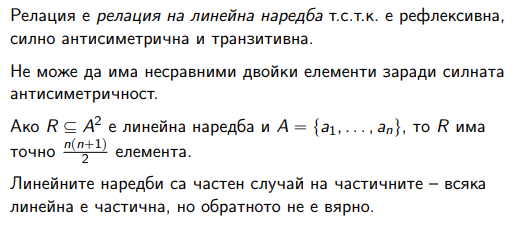


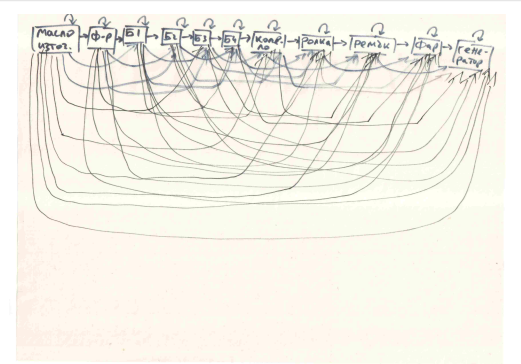
# **10. Диаграми на Хассе**



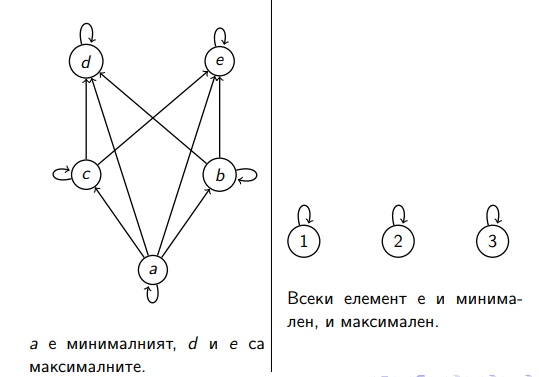
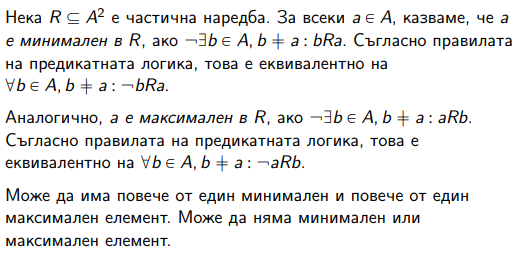


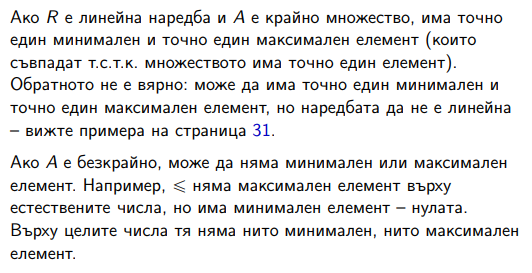
# **11. Релации на пълна наредба.**





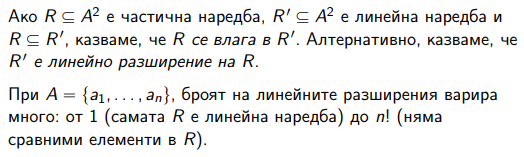
# **12. Минимален и максимален елемент в релация на частична наредба.**



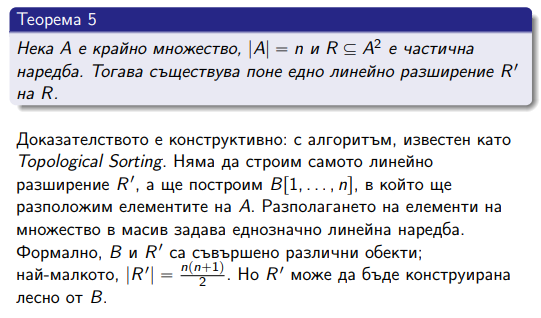


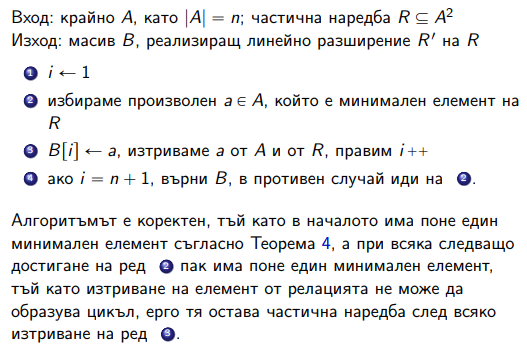
# **13. Влагане на частична наредба в пълна наредба – топологично сортиране.**

**- влагане**

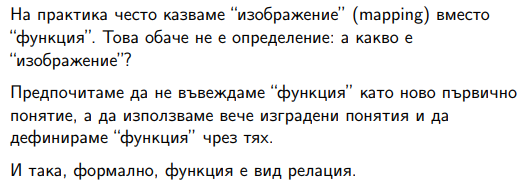
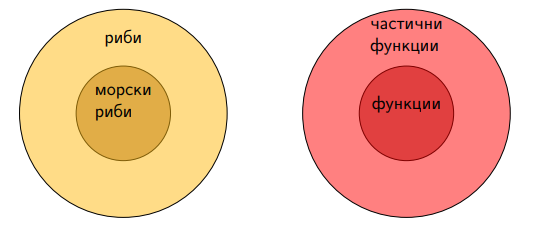
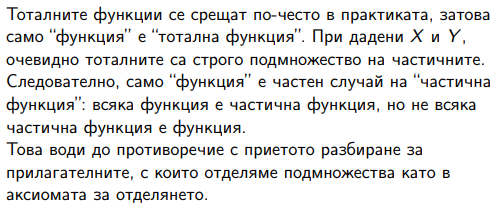
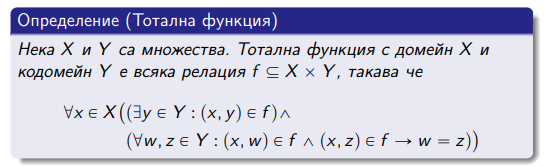
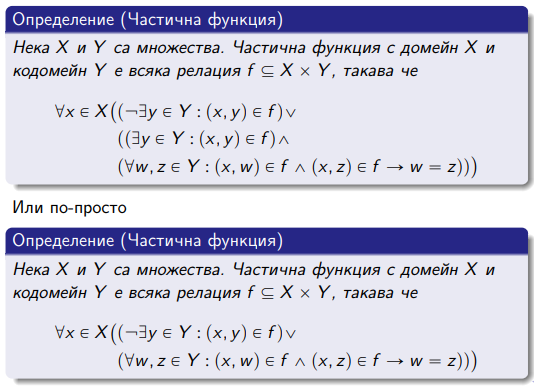
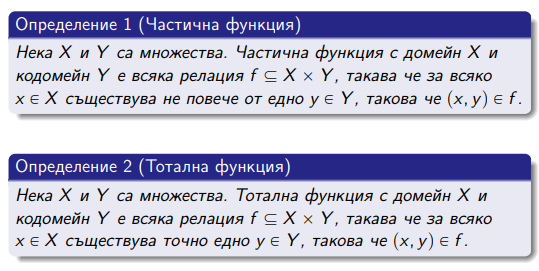


**- топологично сортиране**



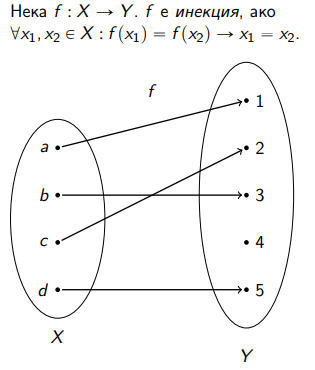


# **14. Частични и тотални функции.**

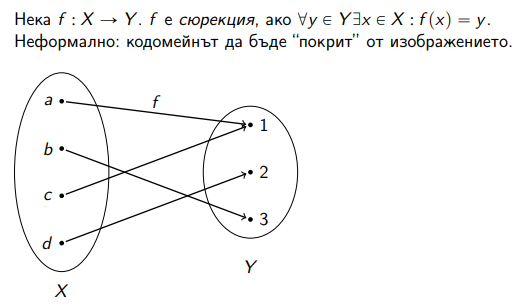


# **15. Инекции, биекции и сюрекции.**

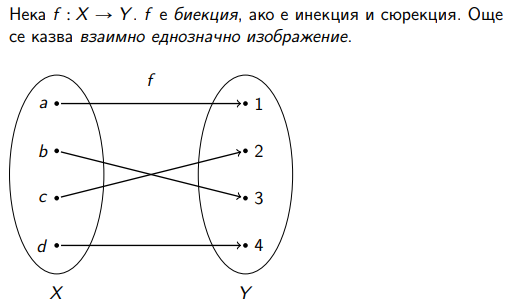
**- инекция**

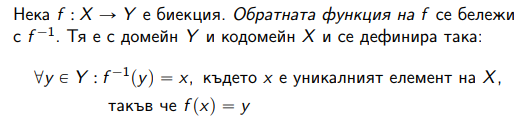
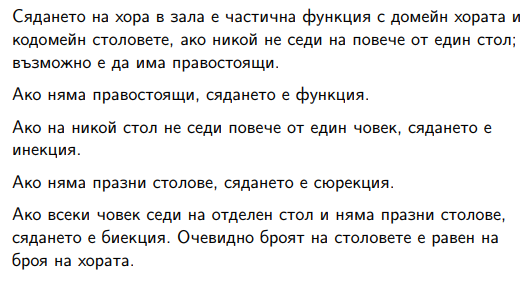


- **сюрекция**

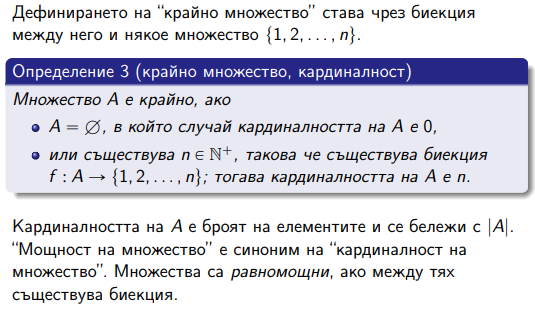


- **биекция**

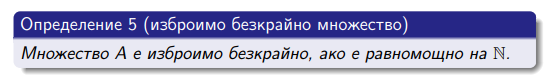




# **16. Дефиниция на крайно множество и на кардиналност на крайно множество.**



# **17. Дефиниция на изброимо безкрайно множество.**



# **18. Принцип на Дирихле.**

