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## SKUPINA A



(1, ) V7 IRACIOHALHO

DOME: S PROTISLOVSEM

PREDP:  $\sqrt{7}$  DE PACIONALNO ET.  $\sqrt{7} = \frac{a}{b}$ ; a,b TUDI SI

b ≠ 0

J7 = a /#2

7 = Q2

 $a^2 = 7b^2 = 77a^2 = 77a$ PROTISCOVJE

7. 12-712 (1-7.1)

 $(7 \times)^2 = 7b^2 (a = 7 \times)$ 

a inb si wista tual

49x2 =762/:(7)

7x2 = b2 => 7|b2 => 7|b

Trditev, kismo jo uzeli kot predpostavko -Dokaz √7 je racionalno étevilo NE DRÉI, saj privede do protislovja, a in b si nista tuji.

Racionalno stevilo pa ima u steucu in imenovalcy tuji si stevili. 17 & Q

√7 je torej iracionalno število.

2. a) 
$$751_{(10)} \longrightarrow \times_{(6)}$$
  
 $751:6 = 125$  1  
 $125:6 = 20$  5  
 $20:6 = 3$  2  
 $3:6 = 0$  3

$$751(10) = 3251(6)$$

P: 
$$1.1+5.6+2.6^2+3.6^3=$$
  
=  $1+30+72+3.216=$   
=  $1+30+72+648=$   
=  $751$  W

b) 
$$451_{(6)} = 1.6^{\circ} + 5.6^{1} + 4.6^{2}_{(10)}$$
  
=  $1 + 30 + 144 =$   
=  $175_{(10)}$ 



cité le sparint

Washing is it will be the suppose

olivata calanciani isintai Fir