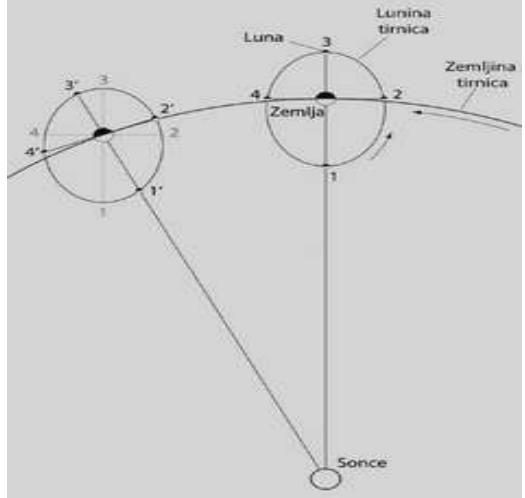


Kdaj bo naslednji Sončni mrk? Geometrija... Saroški cikel, drakonski, anomalistični, sinodski mesec

Sinodski mesec

(od **mlaja** do mlaja)
povprečno = 29,5306 dni



Vir: <https://astronomska-revija-spika.si/luna-lunine-mene-bolj-ali-manj-dolge-lunine-mene/>

Sonc v vozlu = 34 dni

Luna v vozlu = 3 dni

Zemlja-Sonc = 148,77 m.km

Zemlja-Luna = 373062 km

premer Sonca = 1,392 m.km

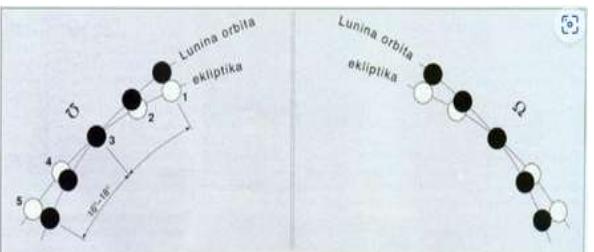
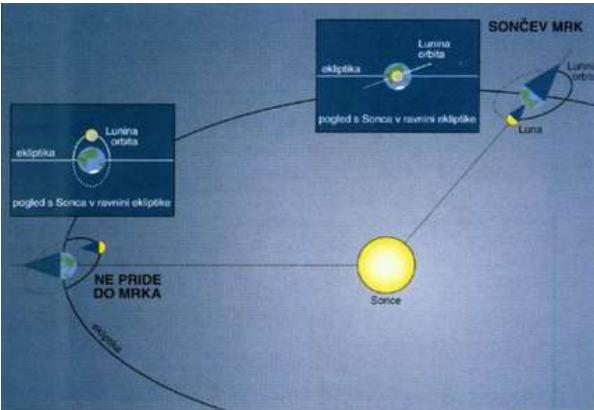
navidezni premer = 32'

premer Lune = 3479 km

navidezni premer = 32'

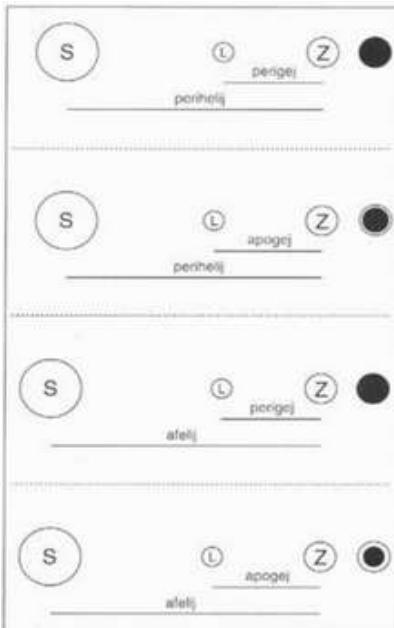
Drakonski mesec

(od **vozla** do vozla)
povprečno = 27,2122 dni

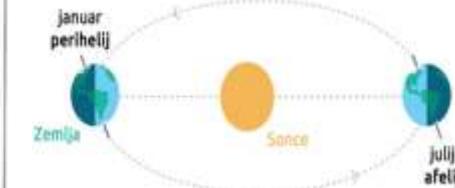


Anomalistični mesec

navidezni premer (perigej)
povprečno = 27,5545 dni
dolžina in vrsta mrka



Vir: <https://astronomska-revija-spika.si/super-polna-luna-mini-polna-luna/>



Vir: <https://astronomska-revija-spika.si/prijava-super-sonce-videli-ga-bomo-4-januarja-2017/sunce-zemlja-perigej-afelij/>

Saroški cikel

18 let 11 dni 8 ur

$$223 \times 29,5306 = 6585,32$$

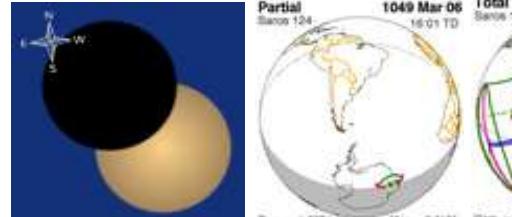
$$242 \times 27,2122 = 6585,35$$

$$239 \times 27,5545 = 6585,54$$

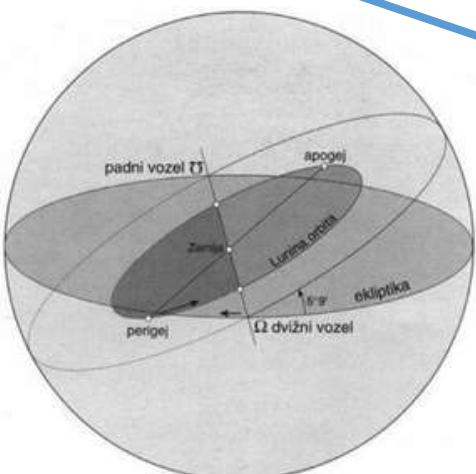
dvižni vozel



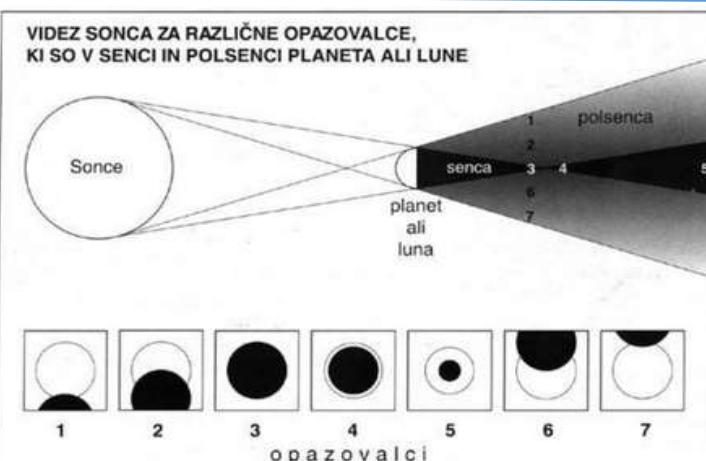
padni vozel



Sonc navidezno potuje po **ekliptiki**
nagib Lunine tirnice 5,1°

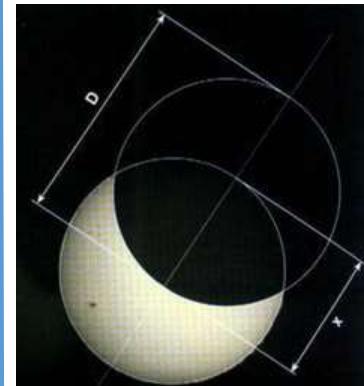


VIDEZ SONCA ZA RAZLIČNE OPAZOVALCE, KI SO V SENCI IN POLSENCI PLANETA ALI LUNE



Vir: <https://kvarkadabra.net/1999/01/mrk-geometrija/>

Magnituda mrka



$$M = x/D$$