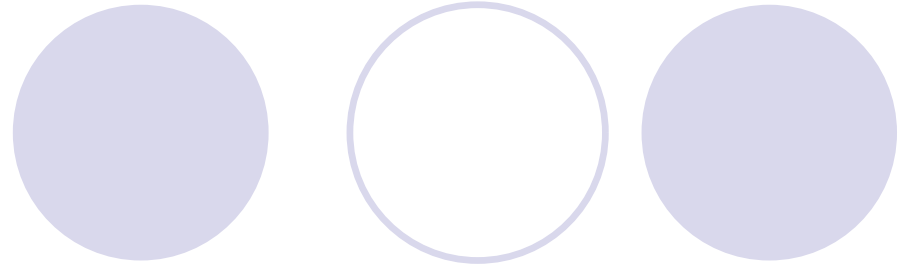
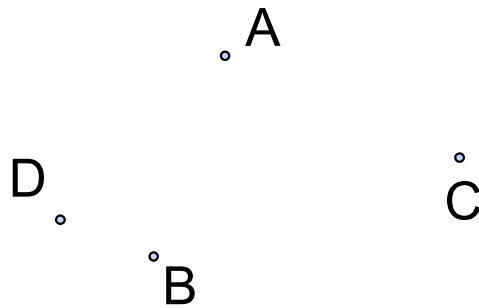


Skupovi točaka u ravnini

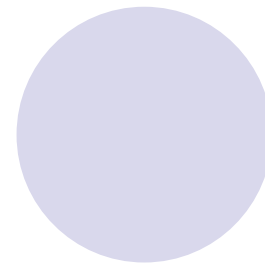
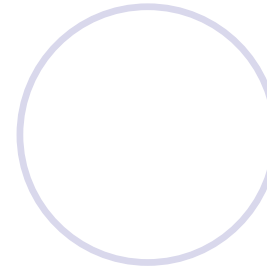
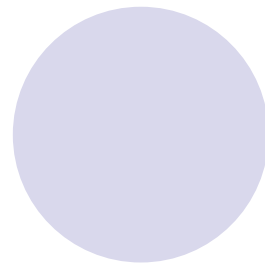
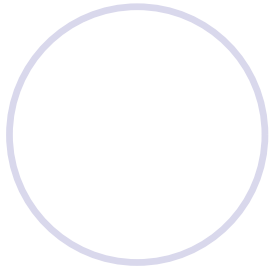
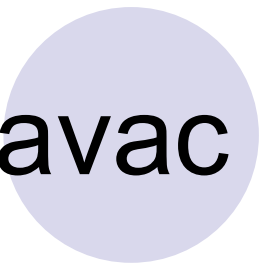
Ravnina i točke



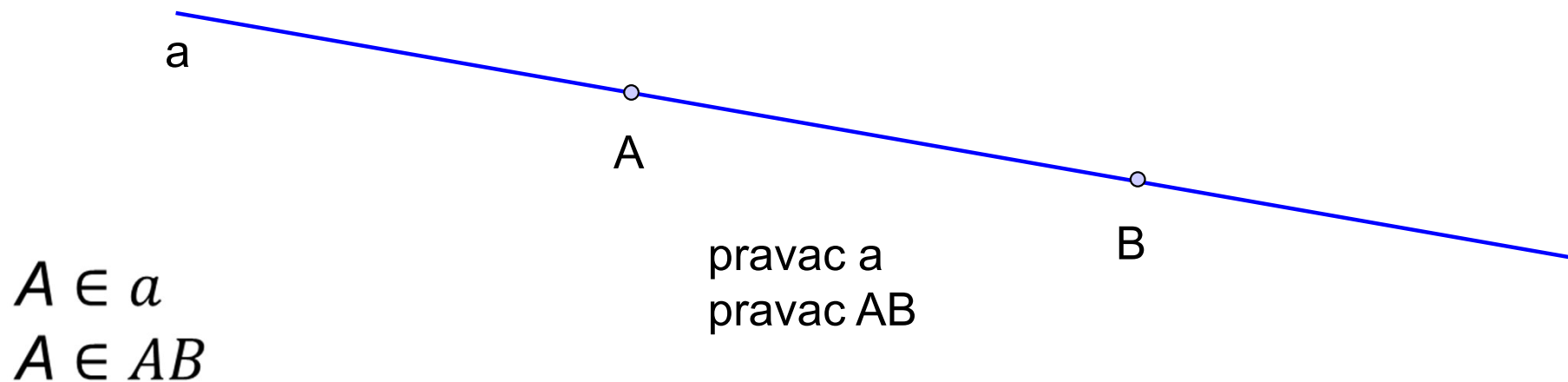
- Ravnina je neomeđena ravna ploha.
- Točka je najmanji dio ravnine.
- **Podskupovi** ravnine su:
točke, pravci, polupravci, dužine, kutovi, ...



Pravac

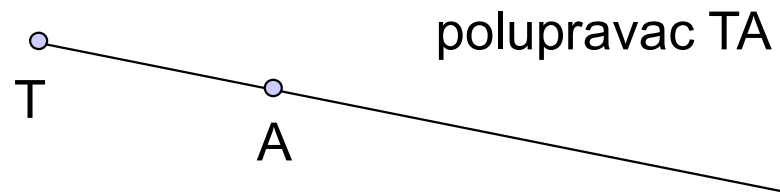


- Pravac je neomeđena ravna crta.

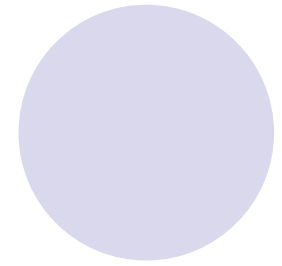
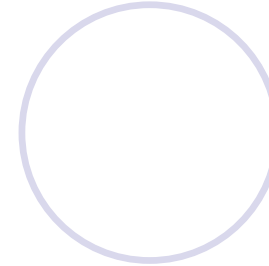
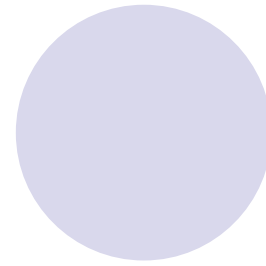
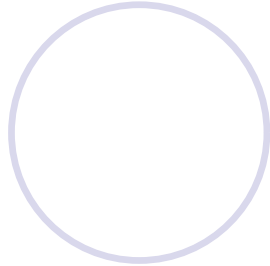


Polupravac

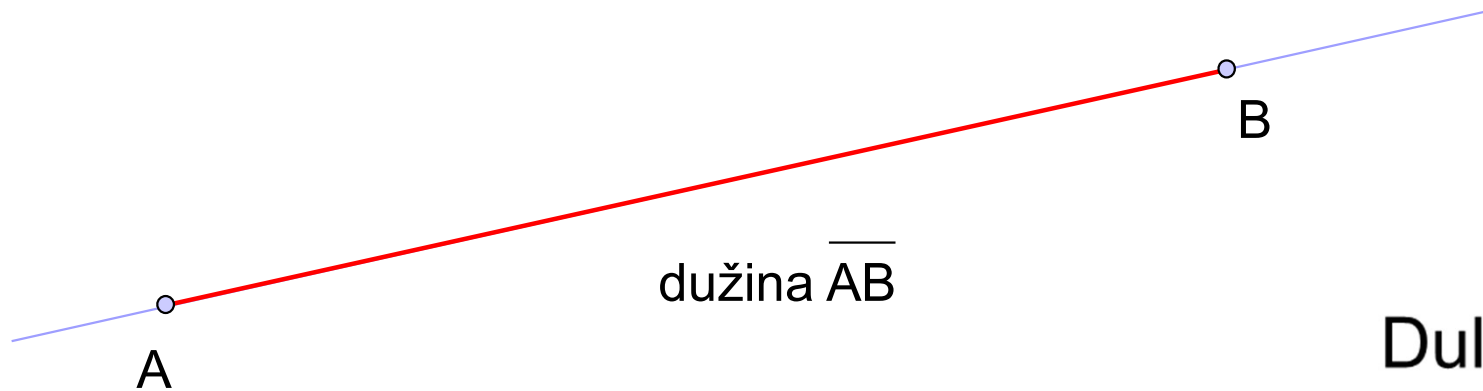
- Polupravac je ravna crta omeđena s jedne strane.



Dužina



- Dužina je omeđena ravna crta.



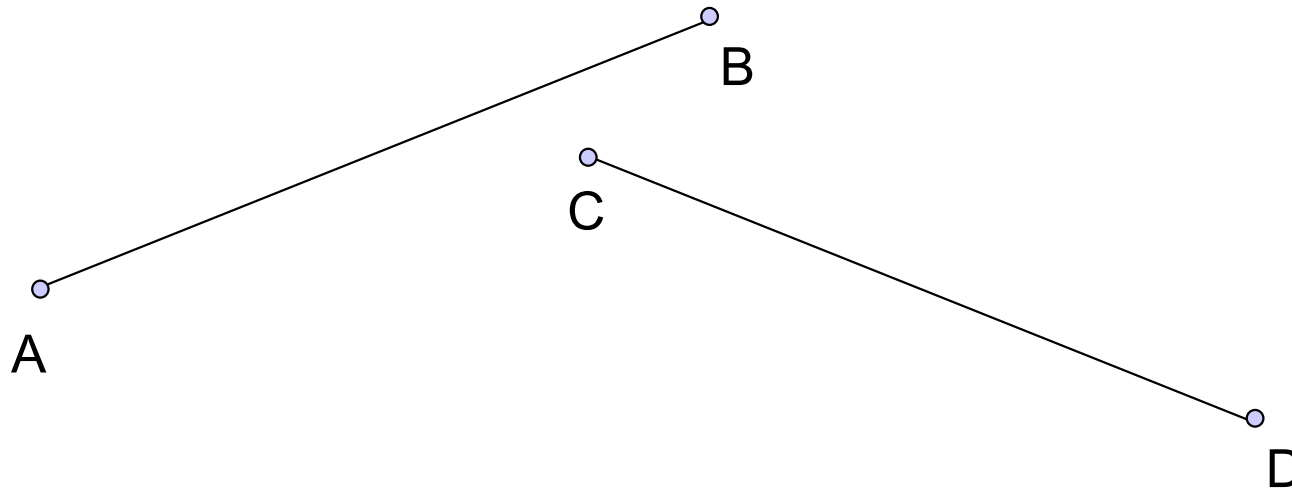
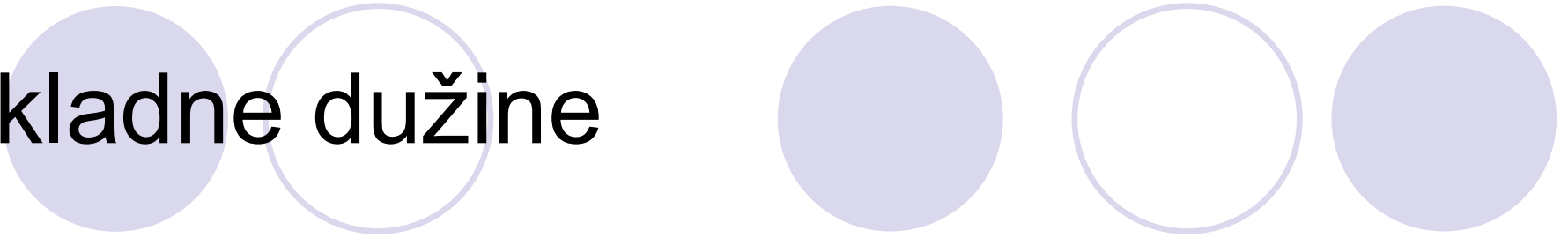
dužina \overline{AB}

Duljina dužine \overline{AB}

$$|AB| = 10 \text{ cm}$$

$$\overline{AB} \subset AB$$

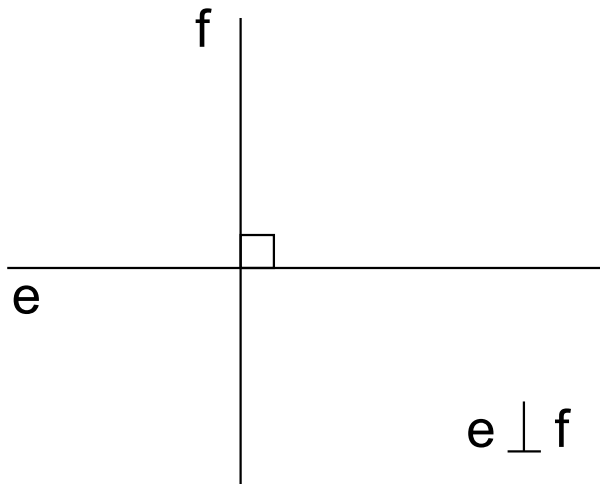
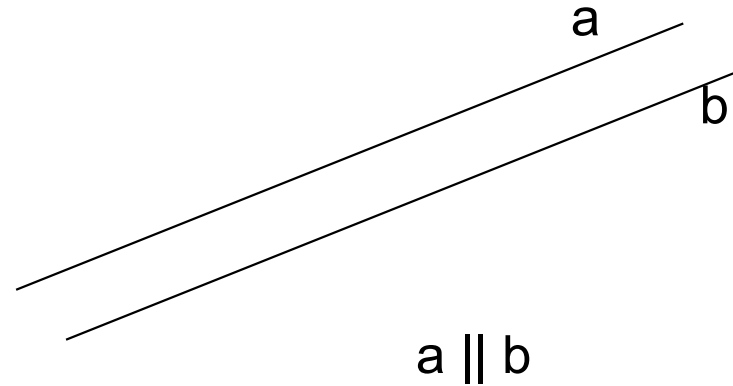
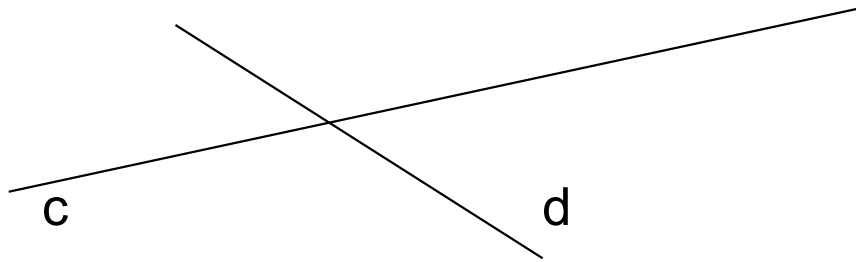
Sukladne dužine



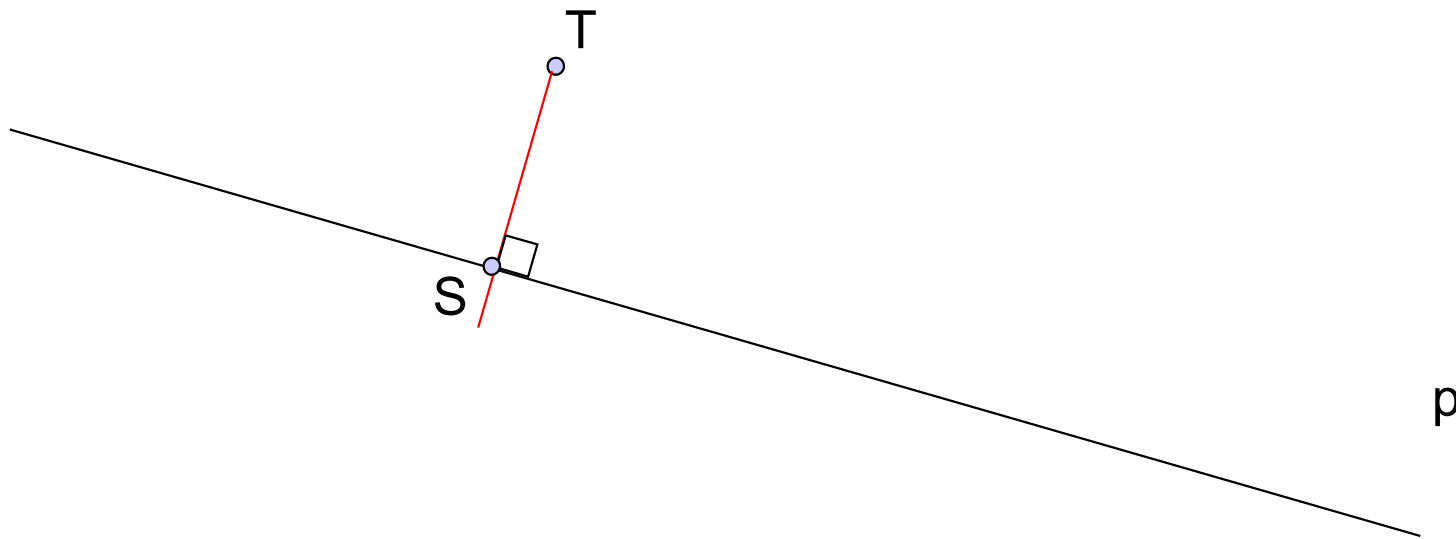
- Dužine jednake duljine

$$|AB| = |CD| = 6 \text{ cm}$$

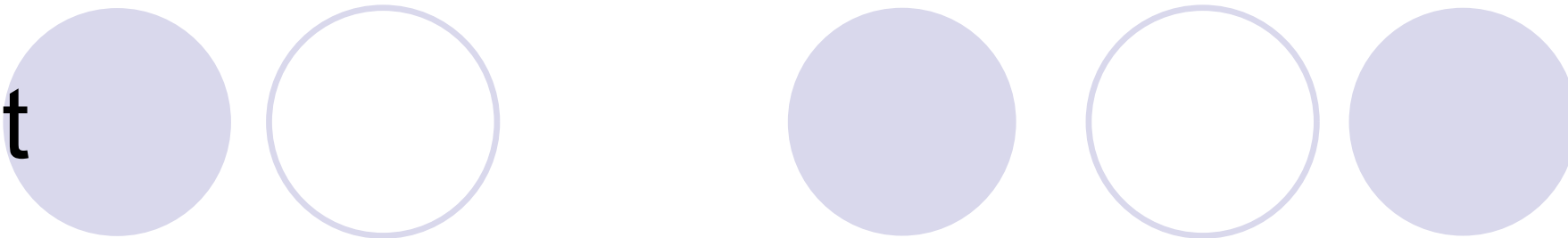
Položaj dvaju pravaca



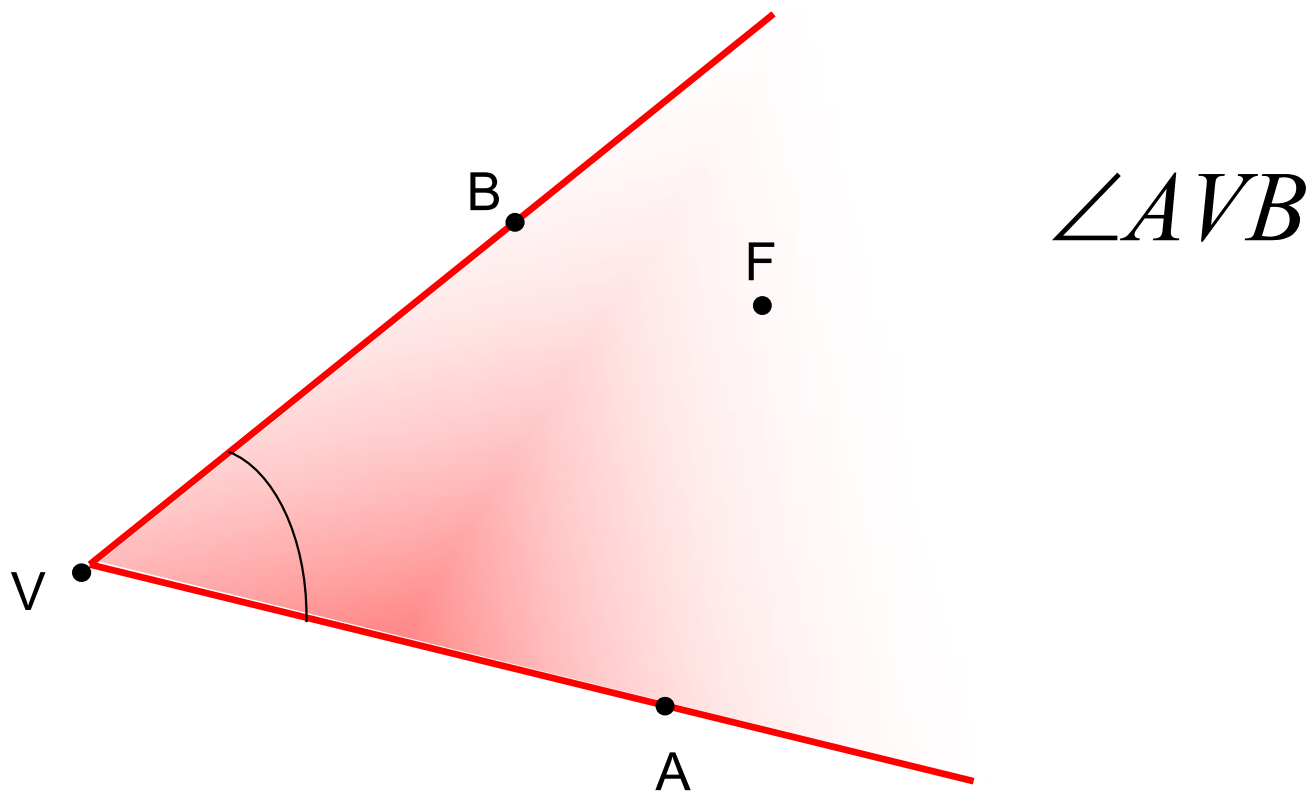
Udaljenost točke od pravca



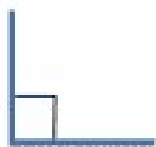
Kut



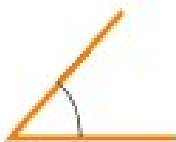
- Kut je dio ravnine omeđen s dva polupravca sa zajedničkom početnom točkom.



Vrste kutova



pravi kut



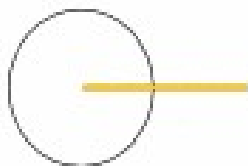
šiljasti kut



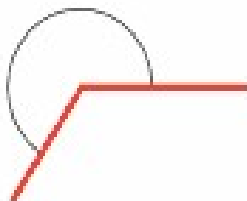
ispruženi kut



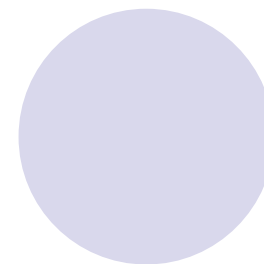
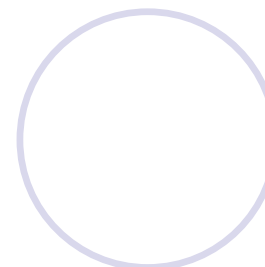
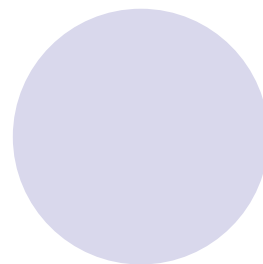
tupi kut



puni kut



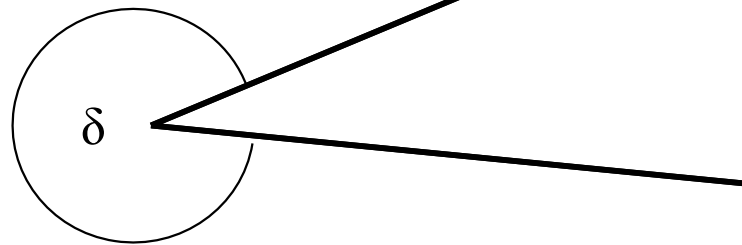
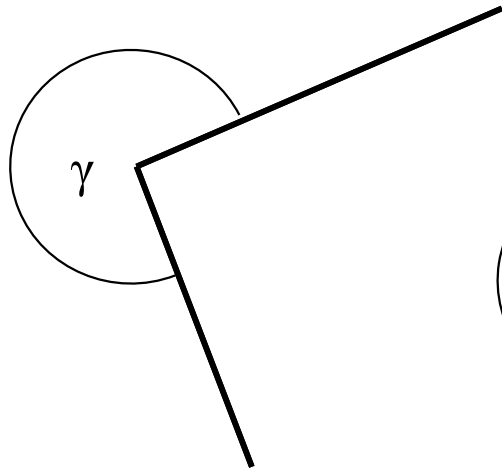
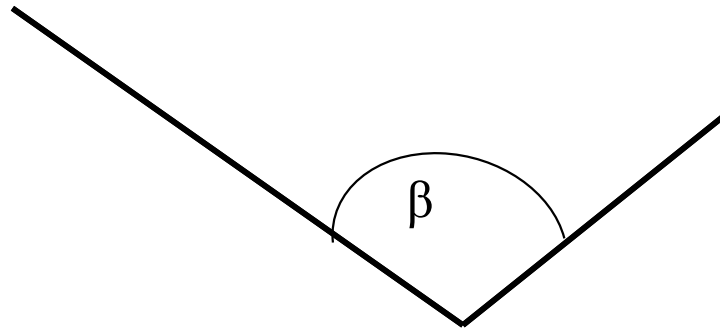
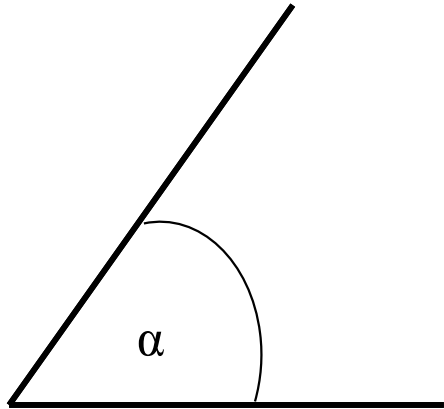
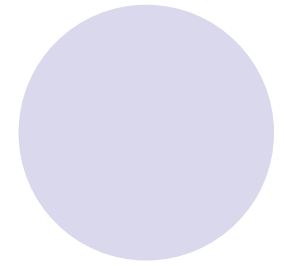
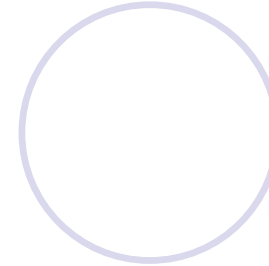
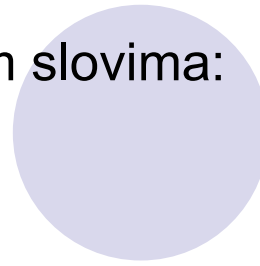
izbočeni kut



Kutove često označavamo i malim grčkim slovima:

α , β , γ , δ

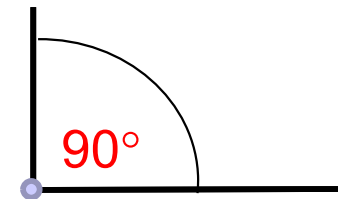
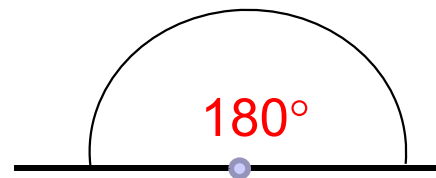
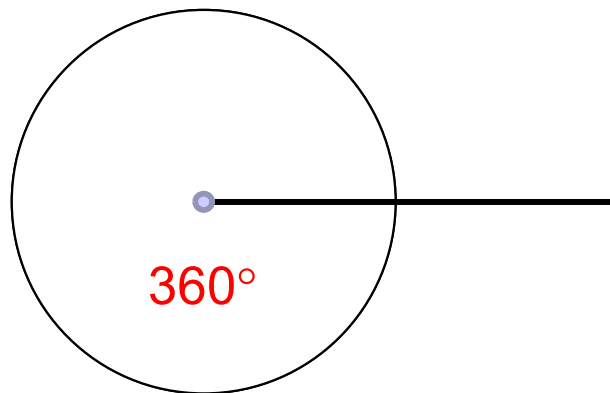
alfa, beta, gama, delta

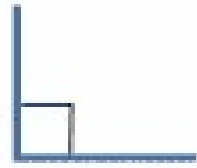
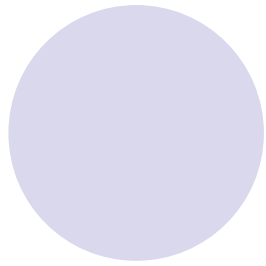


Mjerenje kutova

Osnovna mjerna jedinica za mjerenje kutova je

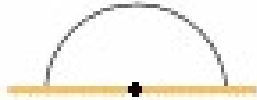
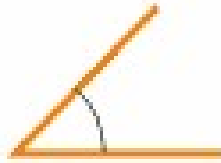
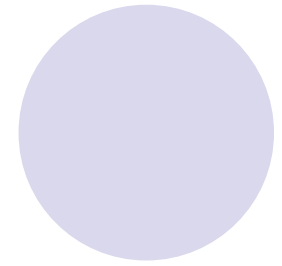
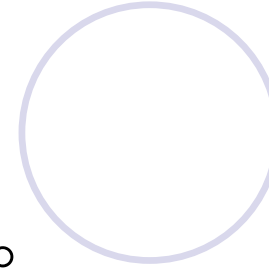
KUTNI STUPANJ (oznaka je $^{\circ}$)





$$\alpha = 90^\circ$$

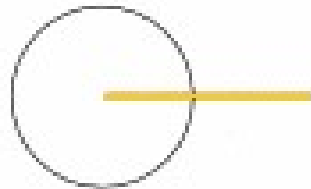
$$0^\circ < \alpha < 90^\circ$$



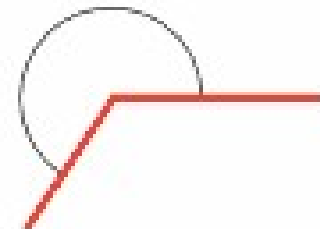
$$\alpha = 180^\circ$$



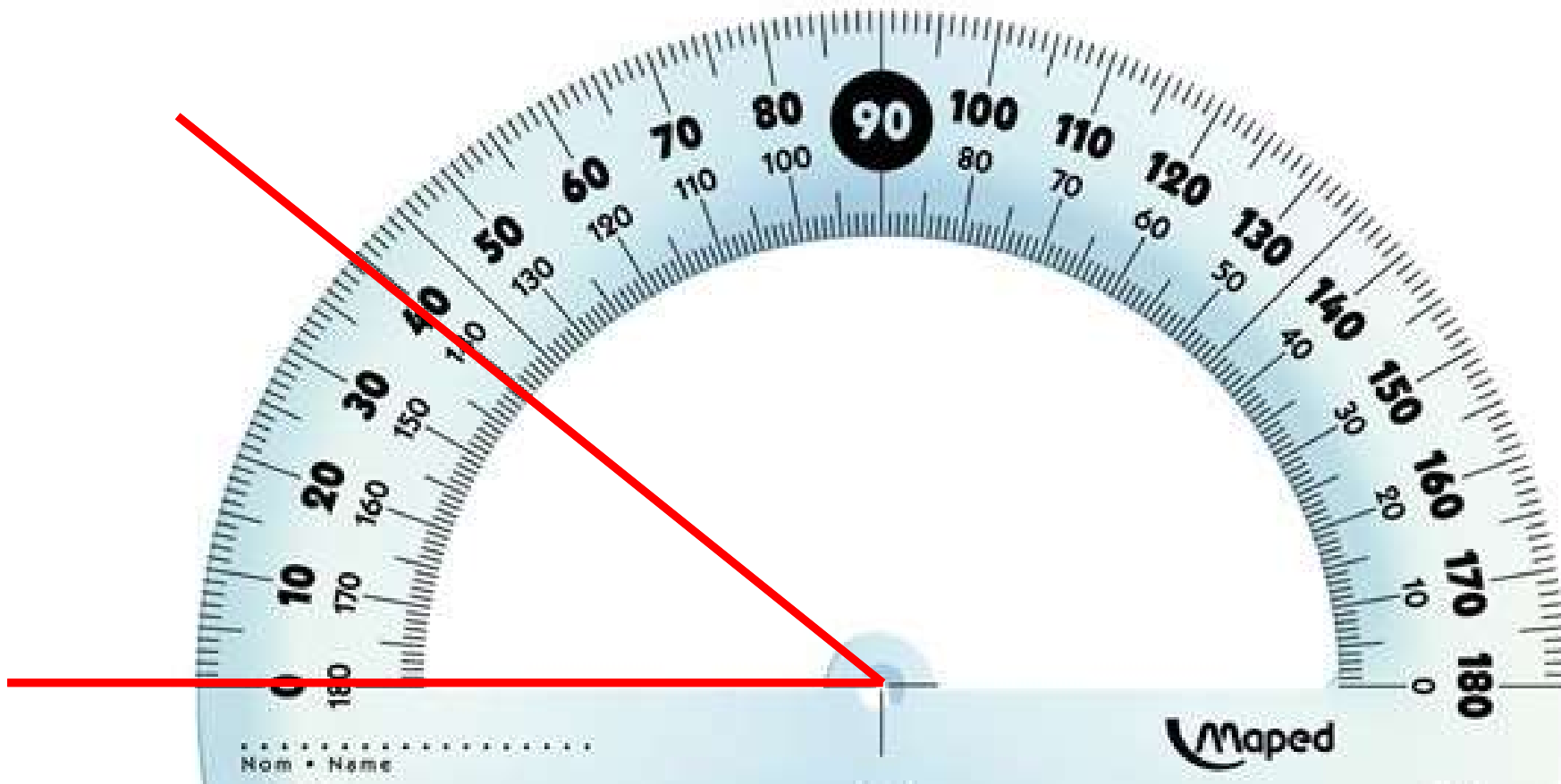
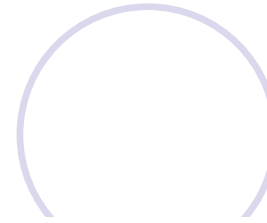
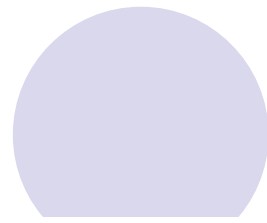
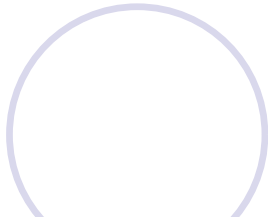
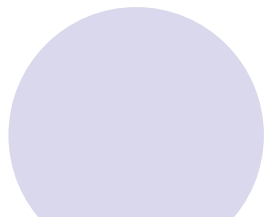
$$90^\circ < \alpha < 180^\circ$$



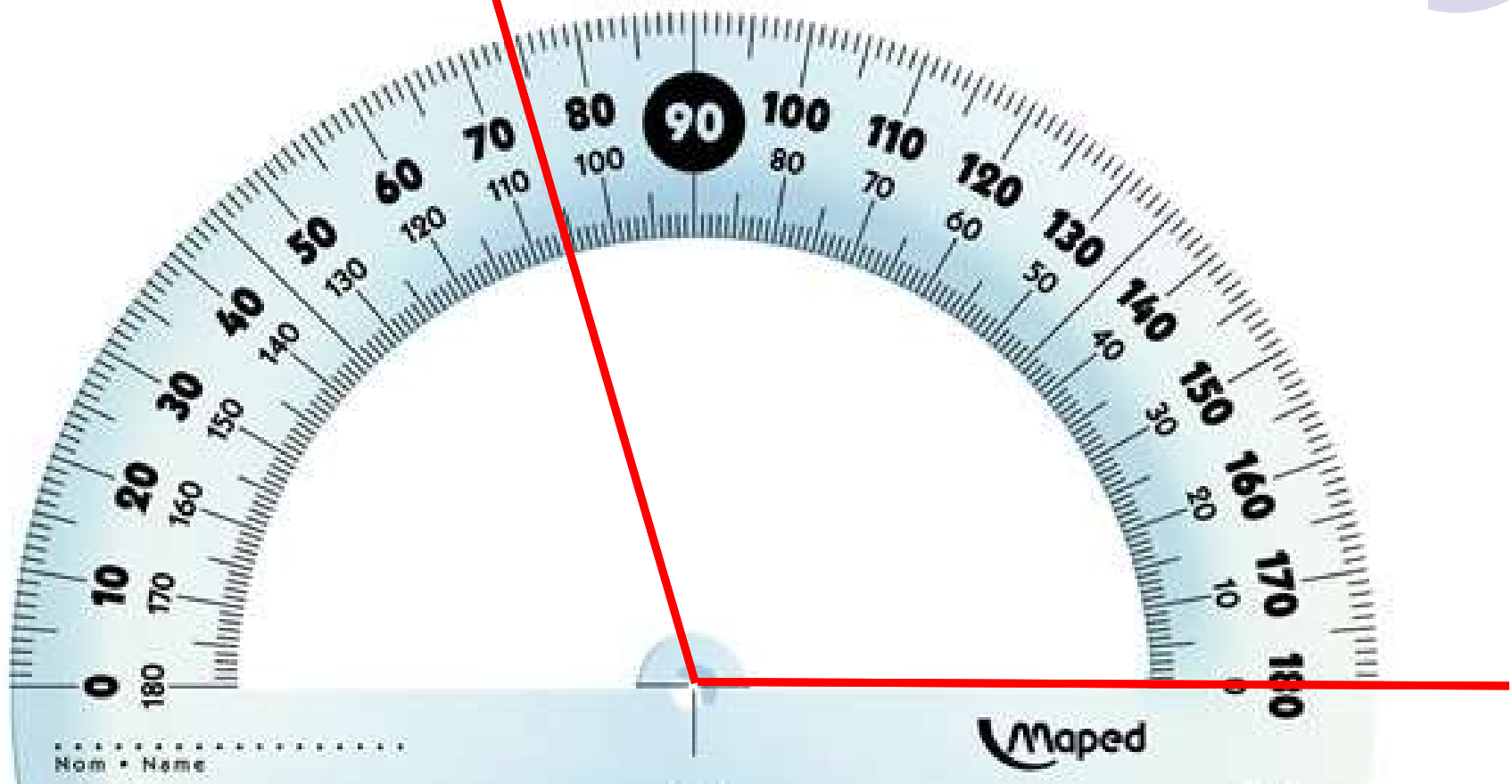
$$\alpha = 360^\circ$$



$$180^\circ < \alpha < 360^\circ$$



Kutomjer



Izbočeni kut

$$360^{\circ} - 140^{\circ} = 220^{\circ}$$

