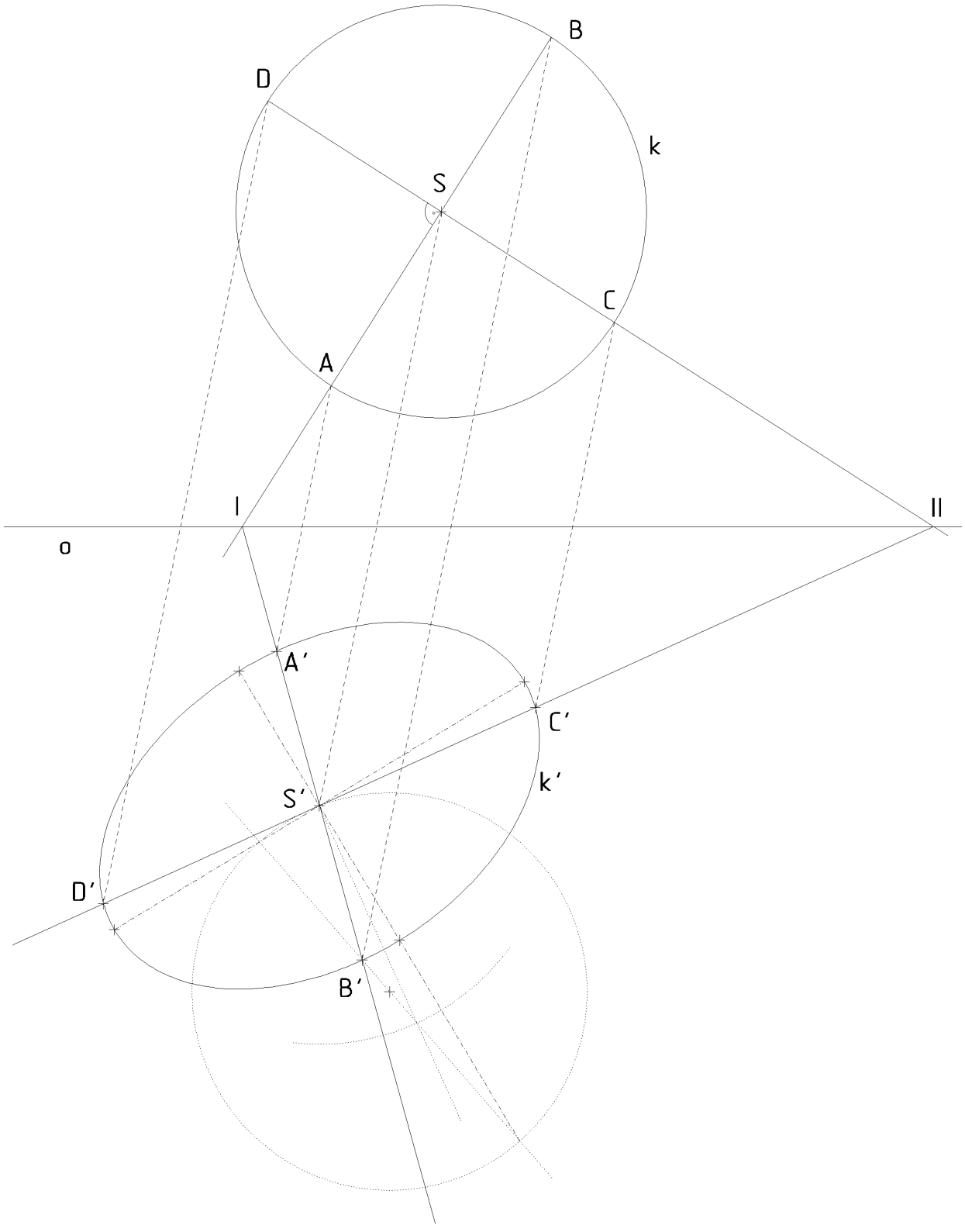
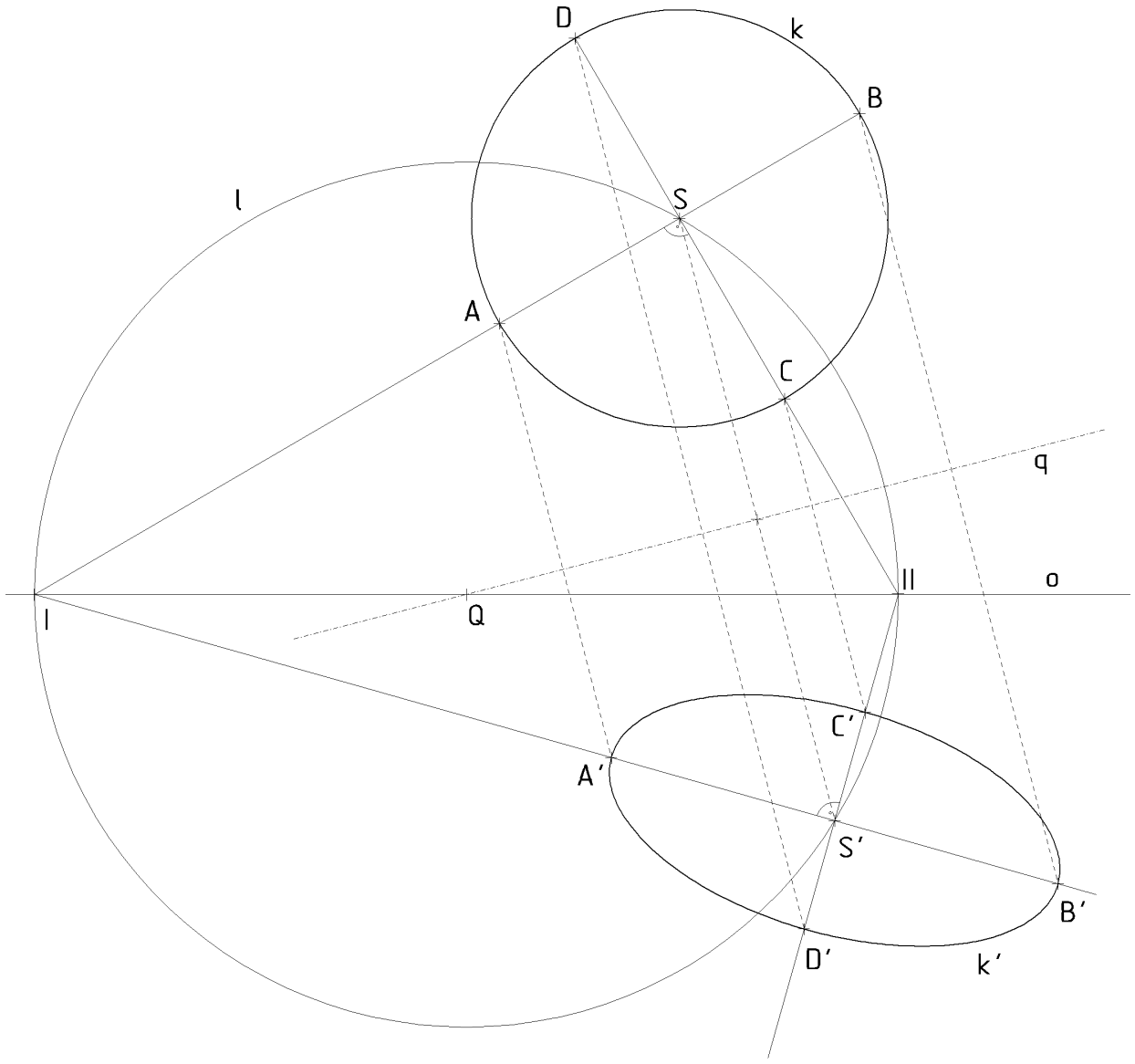
Cvičení č. 3

Příklad č. 17: D: AF ($S \rightarrow S'$, o), $k(S,r)$
S: k'



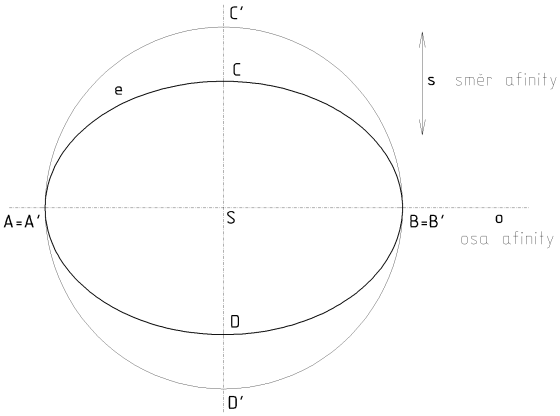
Příklad č. 18: D: AF ($S \rightarrow S'$, o), $k(S,r)$
S: k', konstrukce na přímé získání os elipsy.

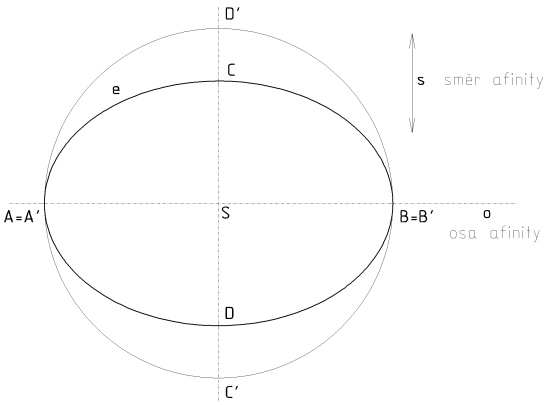


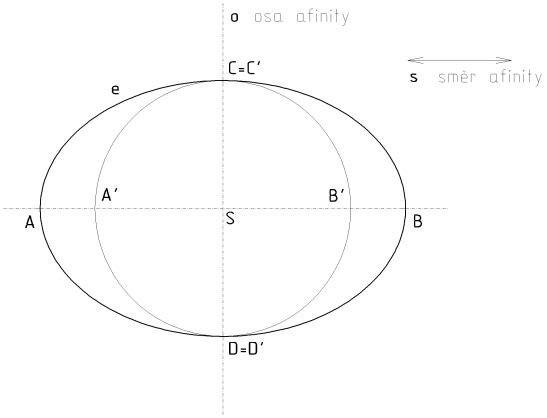
Příklad NP:

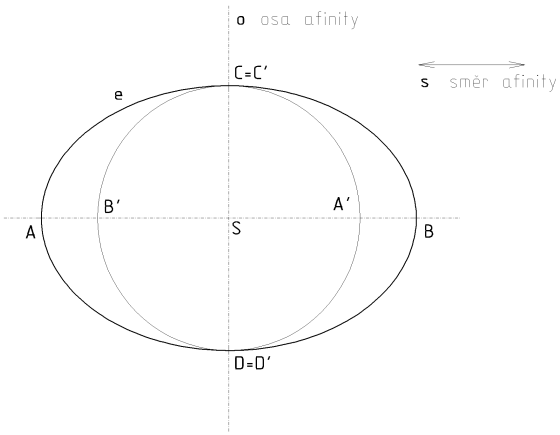
Možnosti volby afinní kružnice k zadané elipse

Elipsa zadaná pomocí hlavní osy *AB* a vedlejší osy *CD*:

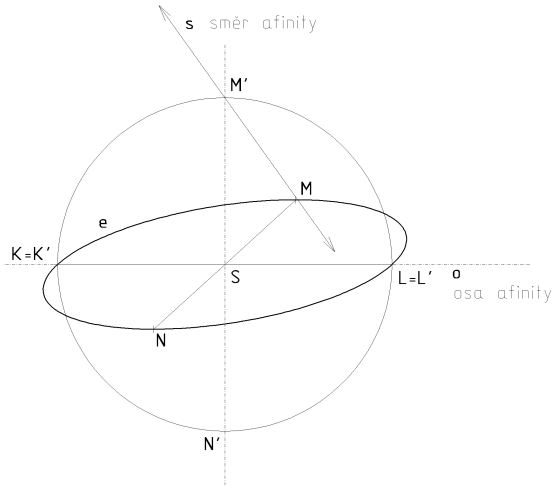


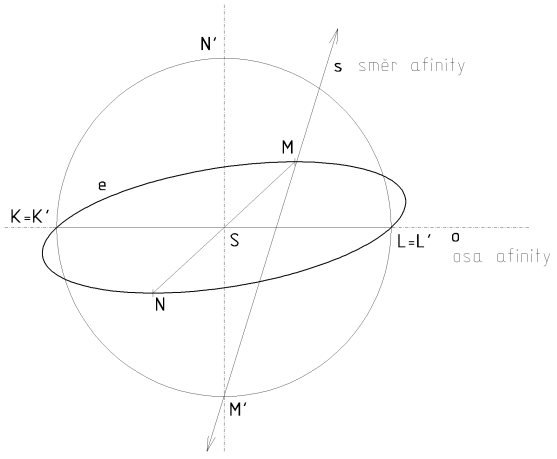


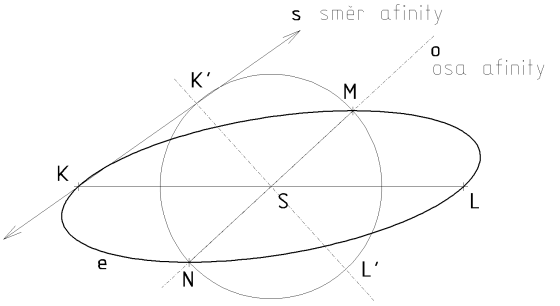


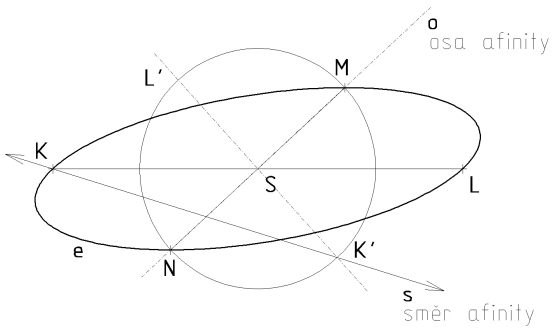


Elipsa zadaná pomocí sdružených průměrů *KL* a *MN*:





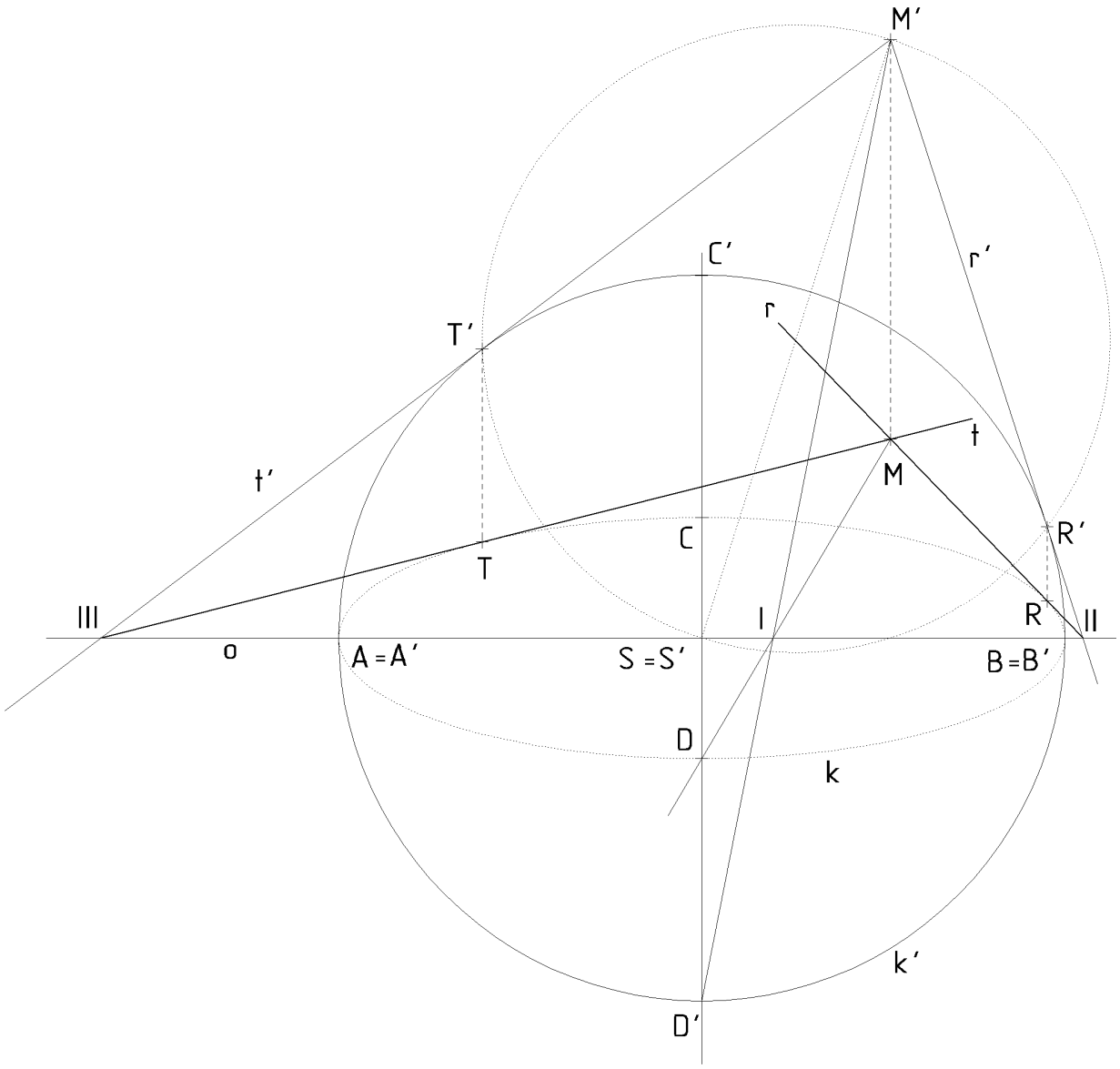




Příklad NP: D: $\mathcal{E}$ (osy *AB*, *CD*), *R*

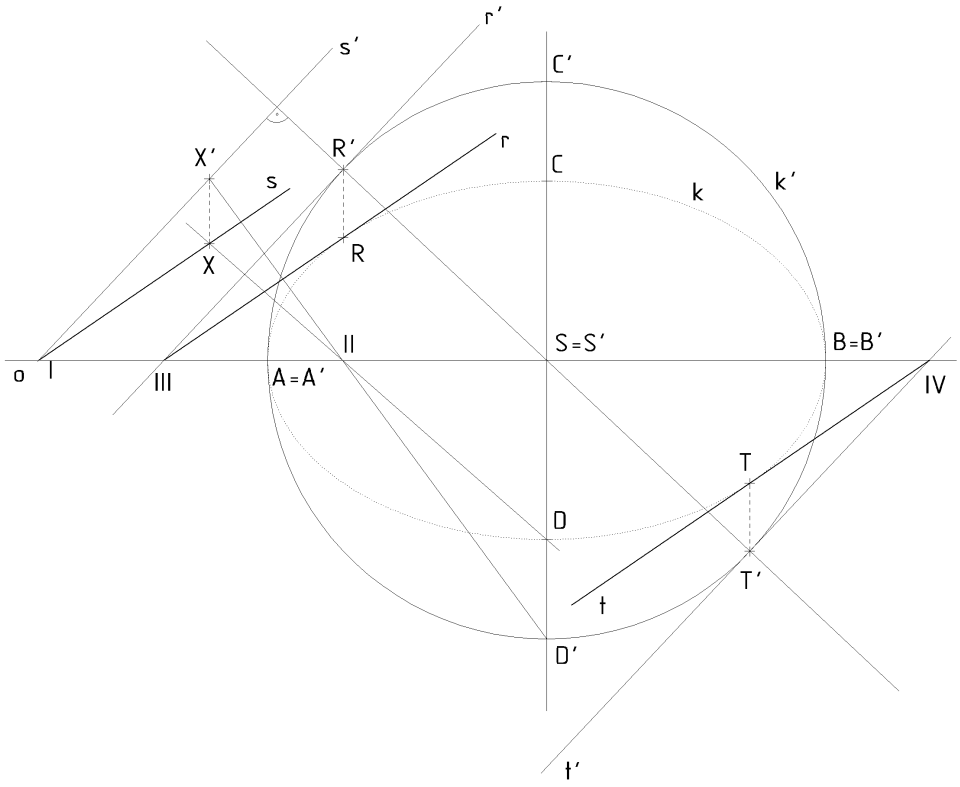
S: Pomocí afinity sestrojte tečny z bodu *R* k elipse $\mathcal{E}$.

Pozor: Na cvičení byl konstruován příklad, kdy byla elipsa zadána sdruženými průměry *KL*, *MN*, nikoliv osami *AB* a *CD*. Úloha tak vede na konstrukci pomocí šikmé afinity.



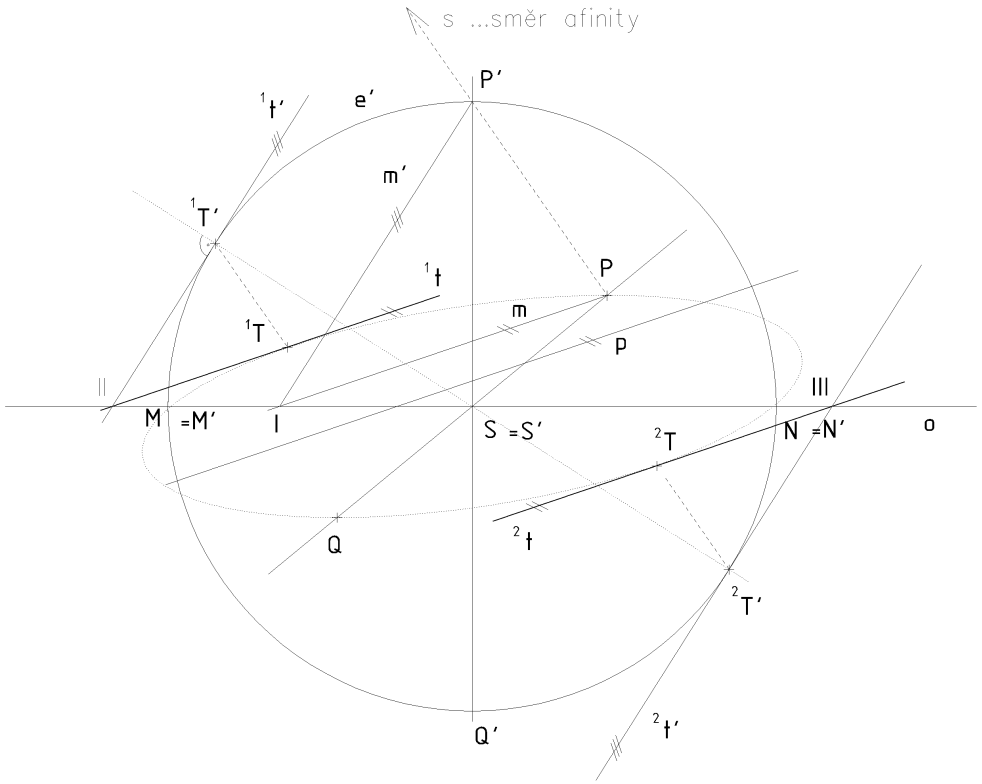
Příklad NP: D: $\mathcal{E}$ (osy *AB*, *CD*), *s*

S: Pomocí afinity sestrojte tečny ve směru *s* k elipse $\mathcal{E}$.

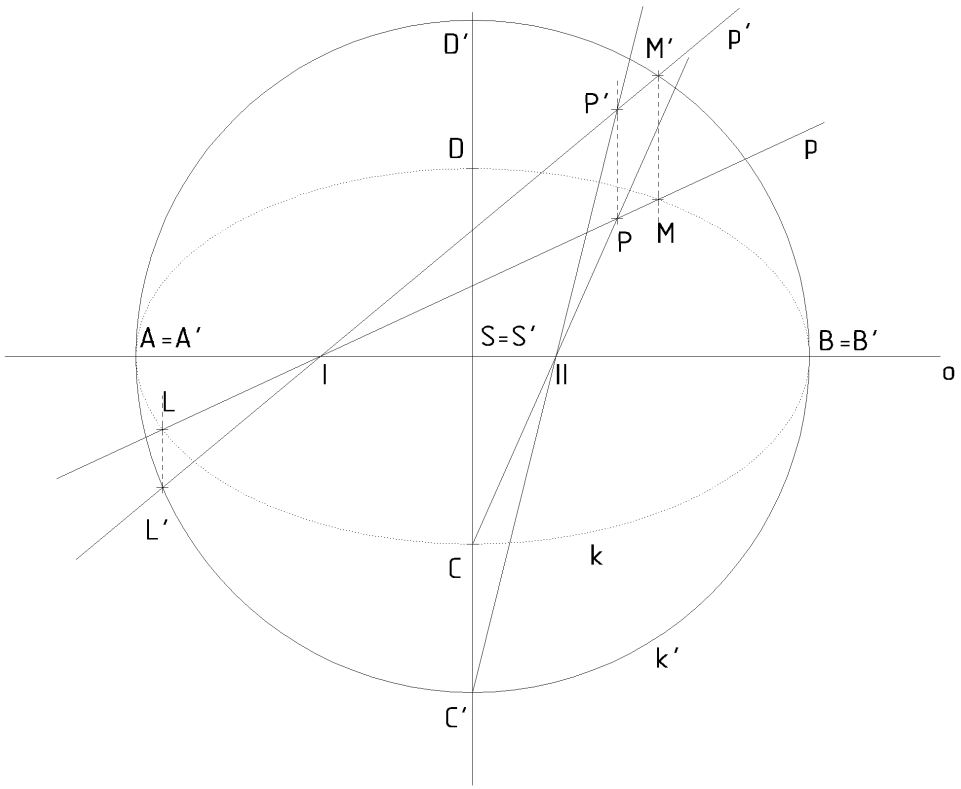


Příklad NP: D: $\mathcal{E}$ (sdružené průměry *MN*, *PQ*), *s*

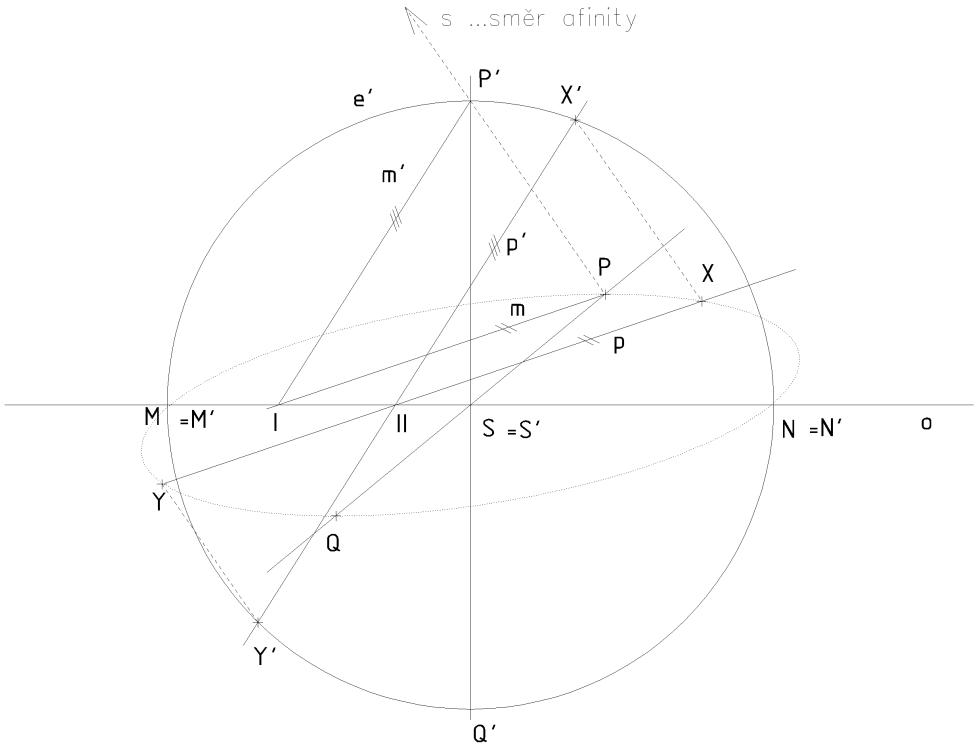
S: Pomocí afinity sestrojte tečny ve směru *s* k elipse $\mathcal{E}$.



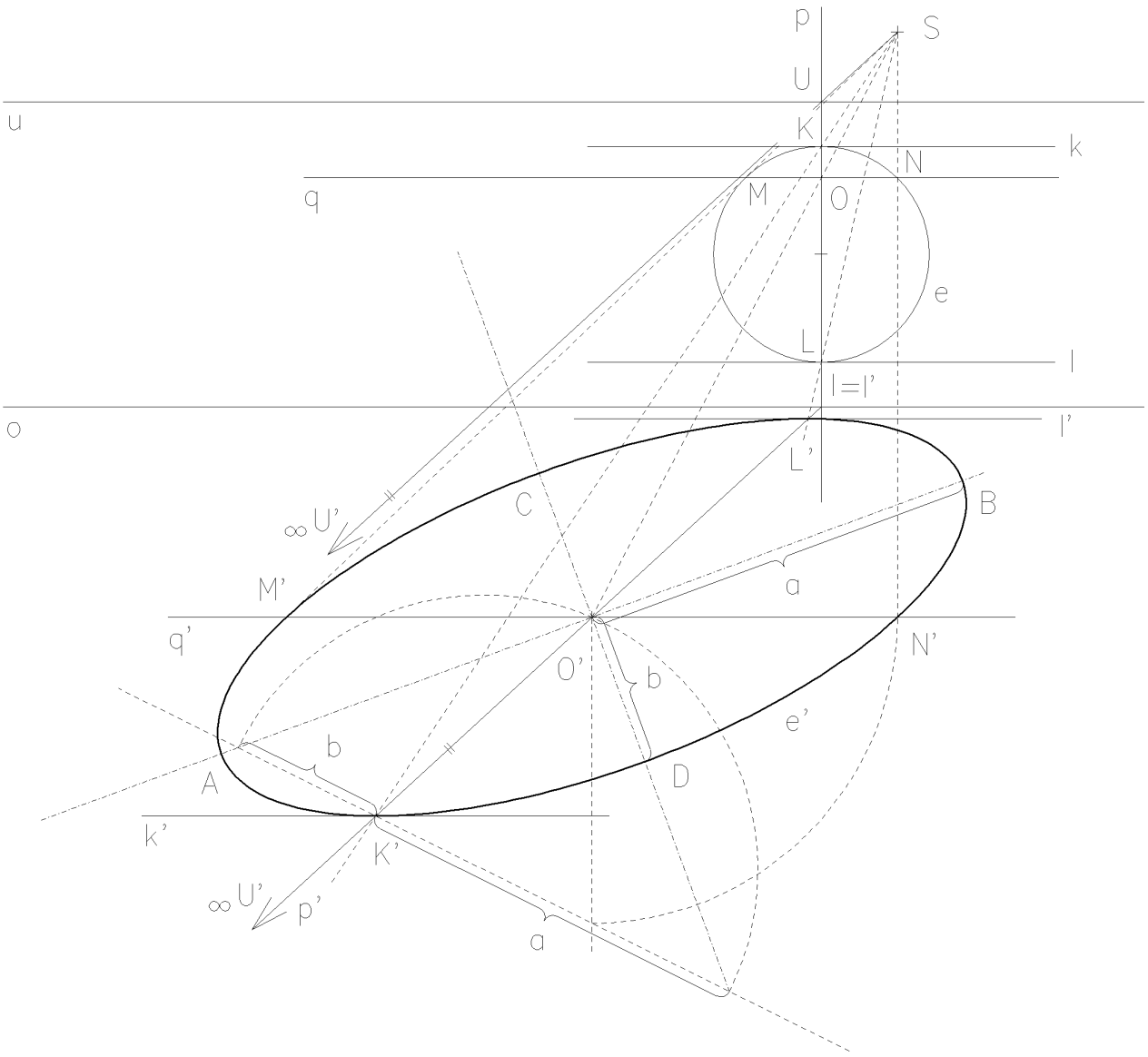
Příklad NP: D: $\mathcal{E}$ (osy AB, CD), p
S: $X, Y = p \cap \mathcal{E}$



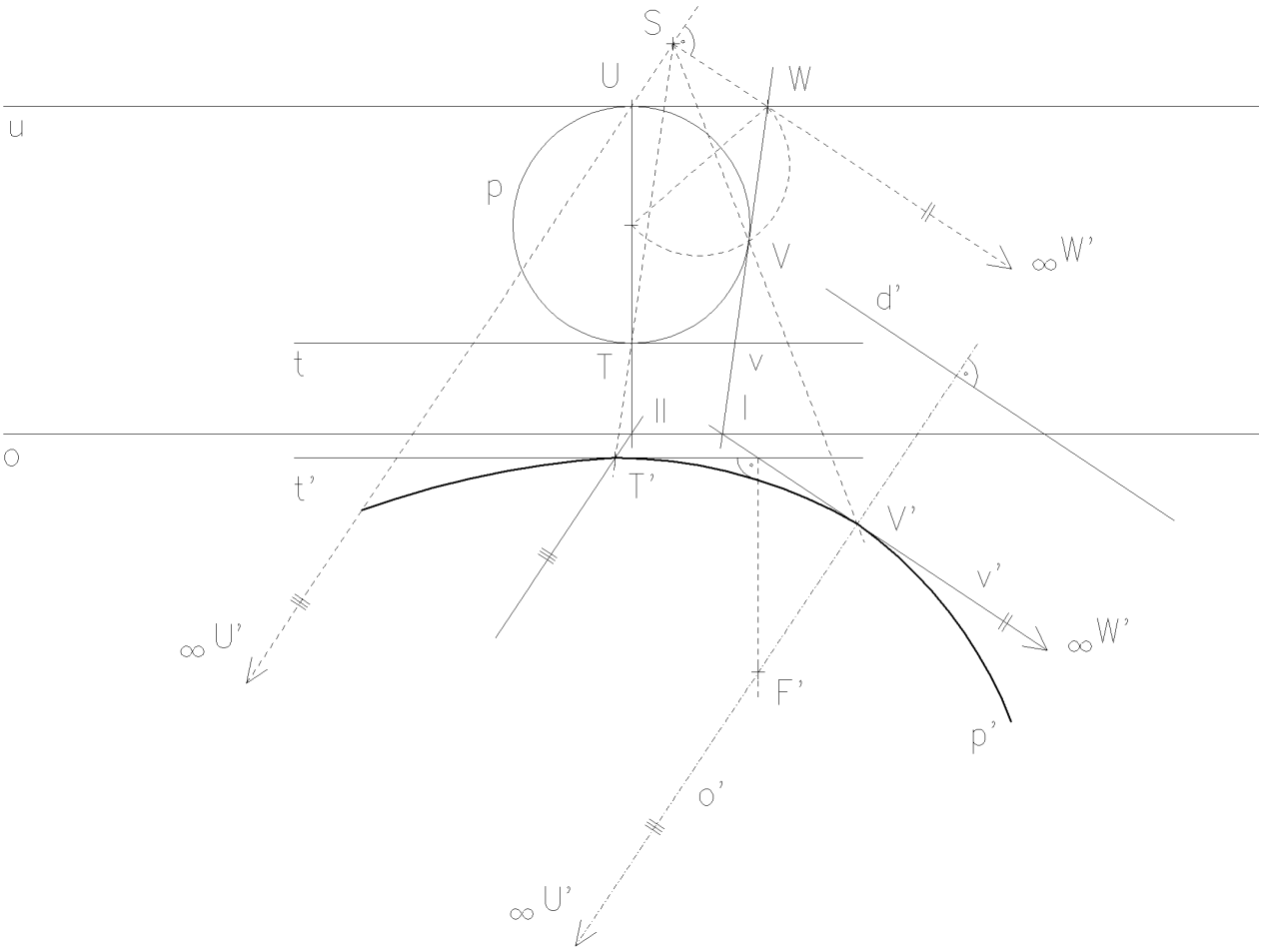
Příklad NP: D: $\mathcal{E}$ (sdružené průměry MN, PQ), p
S: $X, Y = p \cap \mathcal{E}$



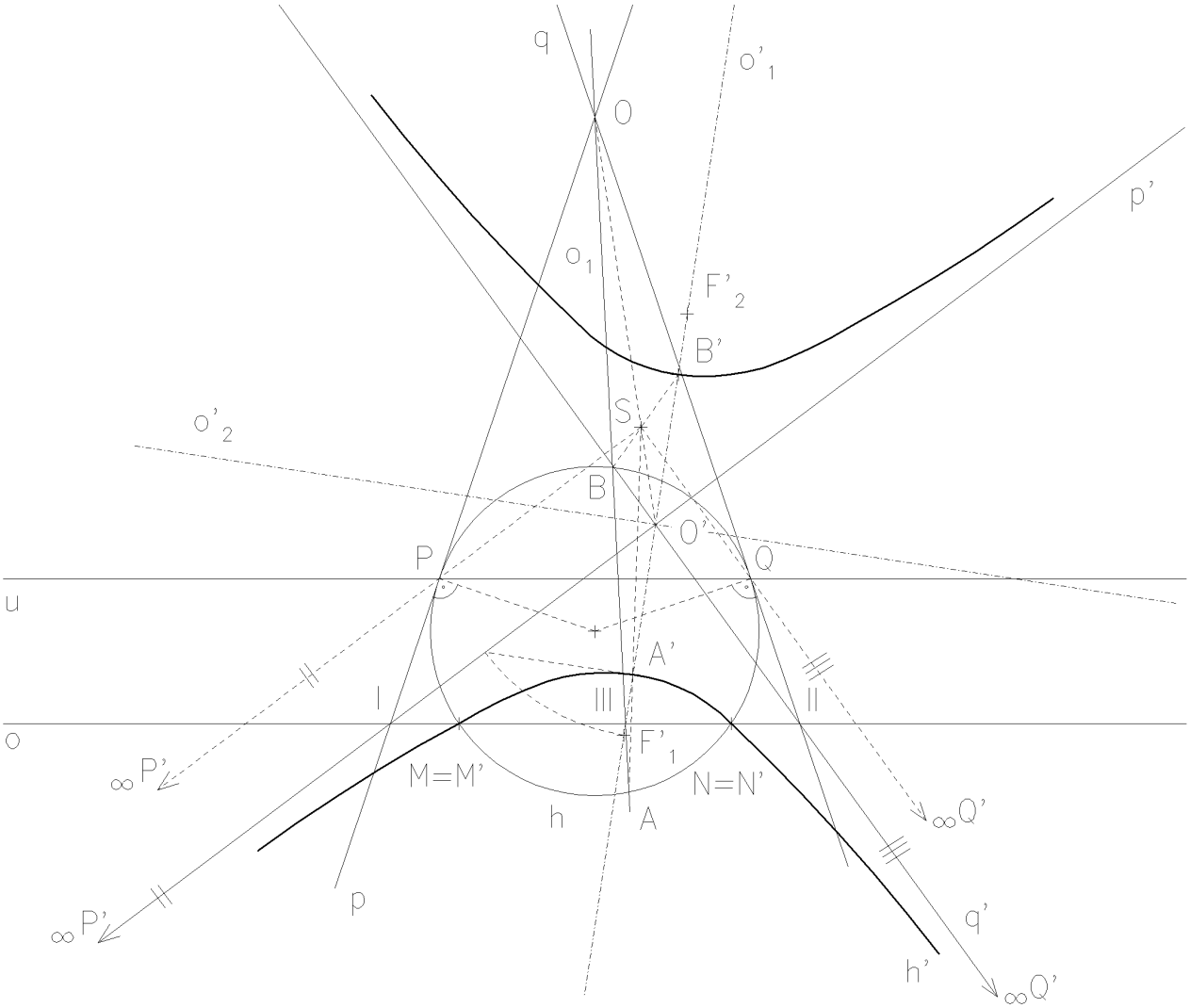
Příklad NP: D: KO (S, o, $u \rightarrow u'_\infty$), $e(S,r)$
S: e' - elipsa



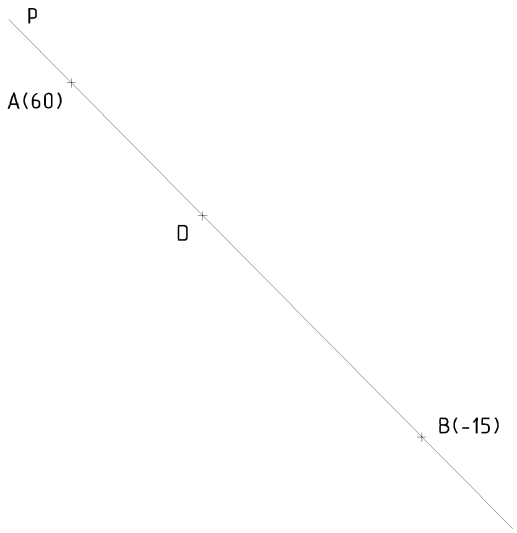
Příklad č. 19: D: KO (S, o, $u \rightarrow u'_\infty$), $p(S,r)$
S: p' - parabola

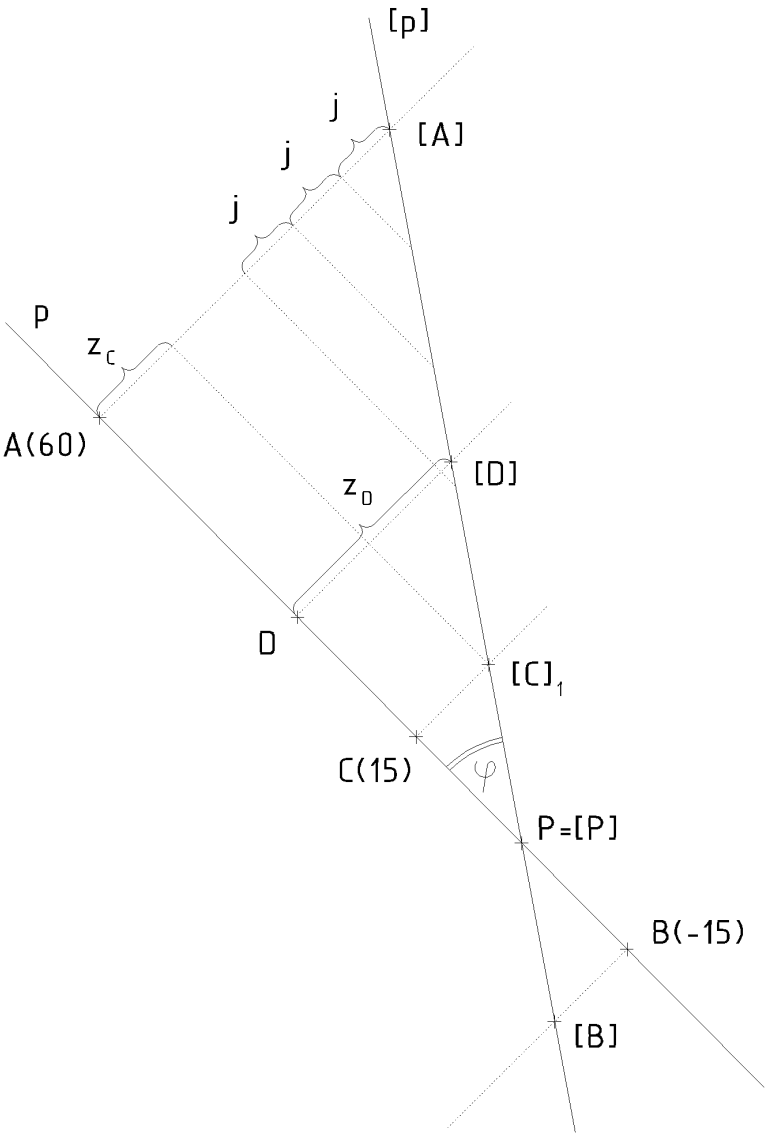


Příklad č. 20: D: KO (S, o, $u \rightarrow u'_\infty$), $h(S,r)$
S: h' - hyperbola

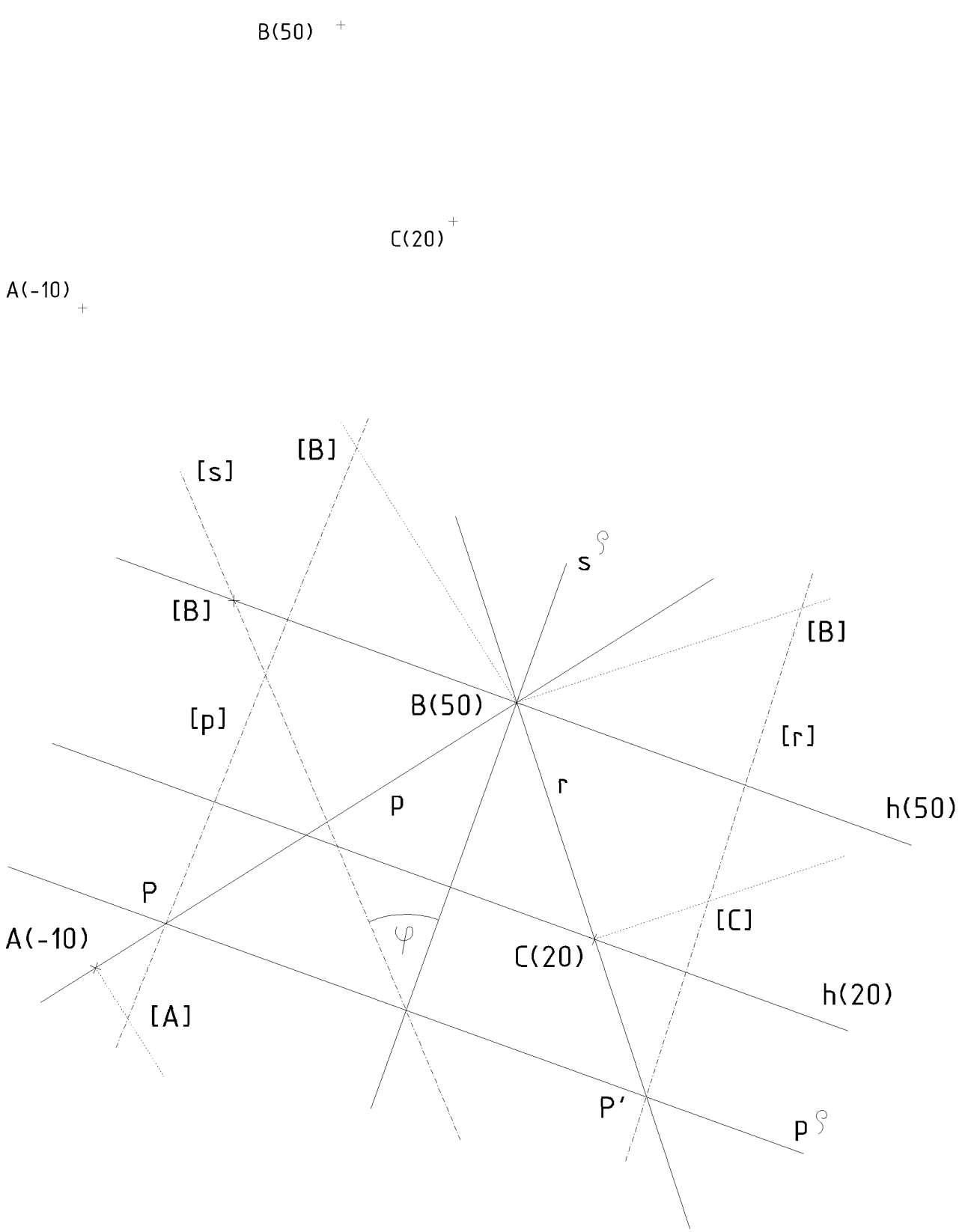


Příklad č. 21: D: KP, $p(AB)$
S: sklopení přímky p, spád přímky, bod C o kótě 15, kótu bodu D.

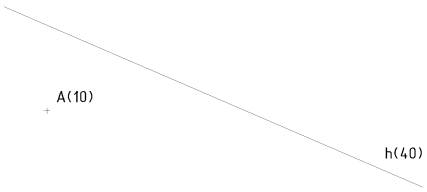


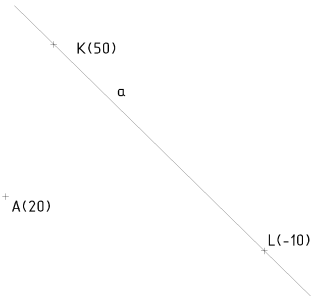


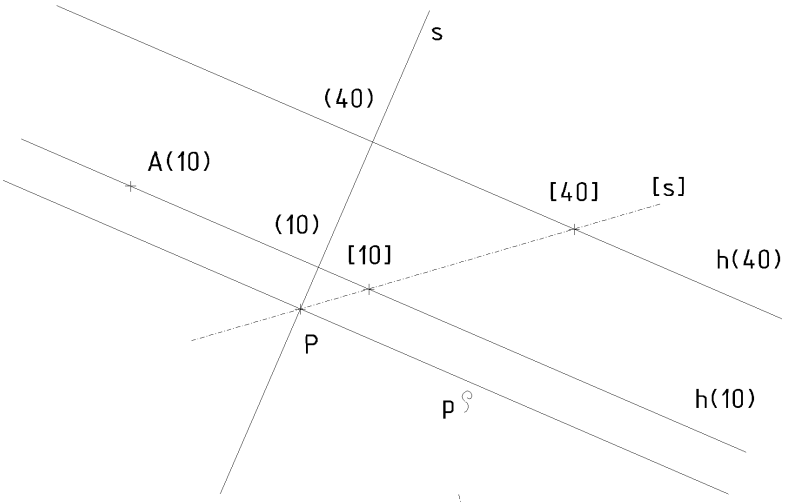
Příklad č. 22: D: KP, $\rho(A, B, C)$
S: ρ

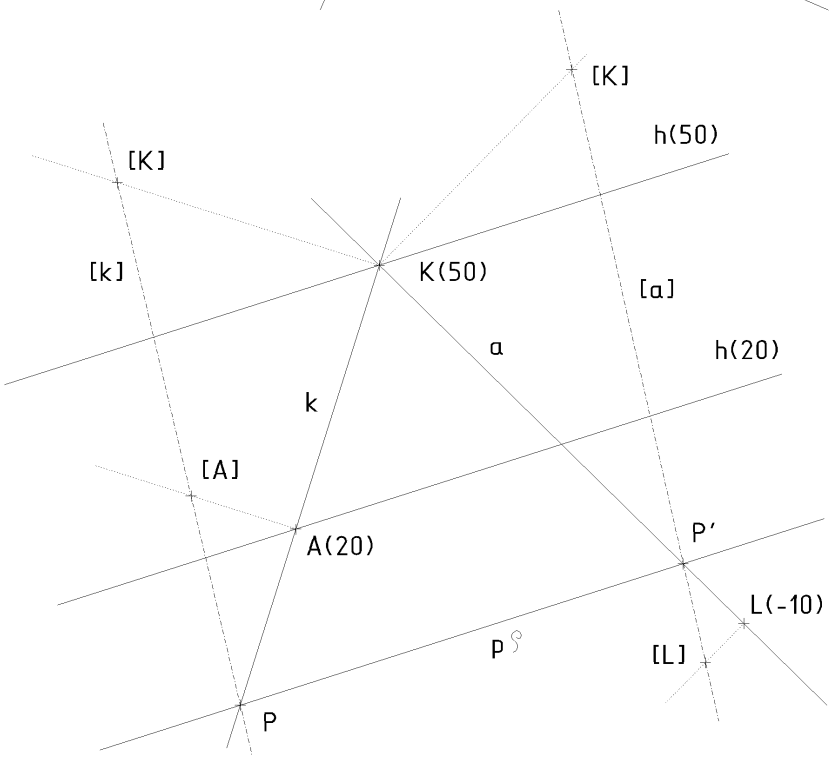


Příklad č. 23: a) D: KP, $\rho(A, h)$
S: ρ
b) D: KP, $\rho(A, a)$
S: ρ

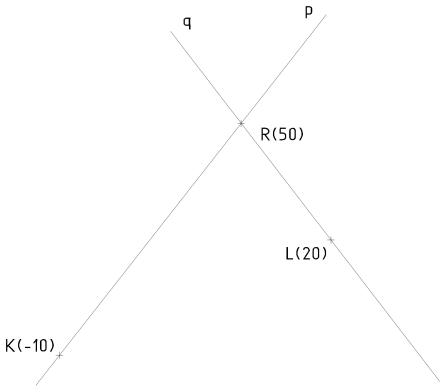


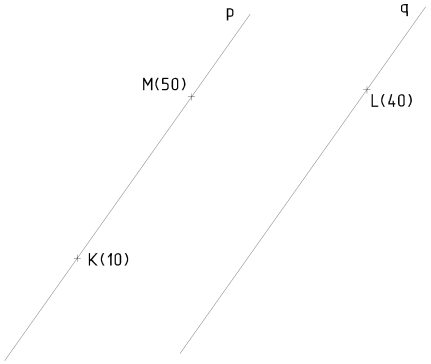


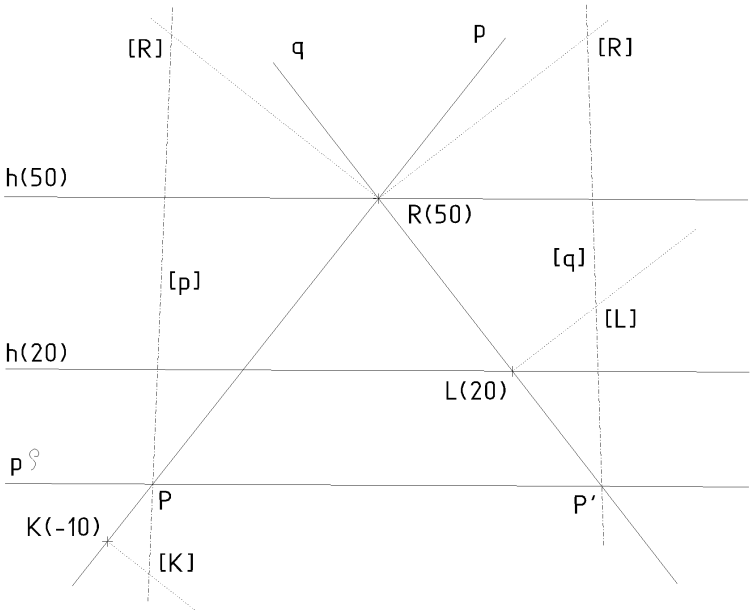


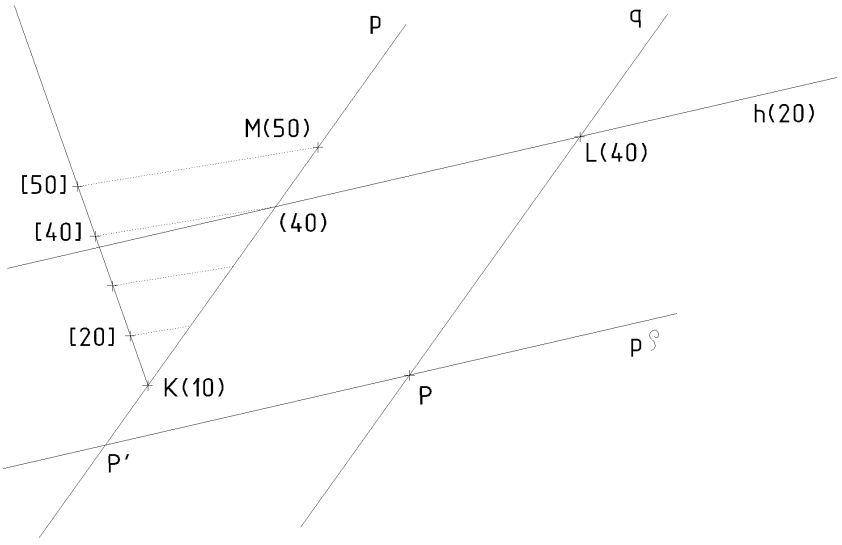


Příklad NP: a) D: KP, $\rho(p \rangle\langle q)$
S: ρ
b) D: KP, $\rho(p \| q)$
S: ρ

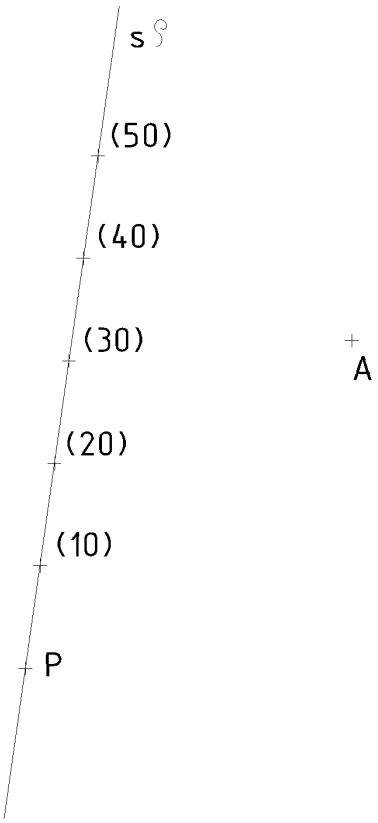


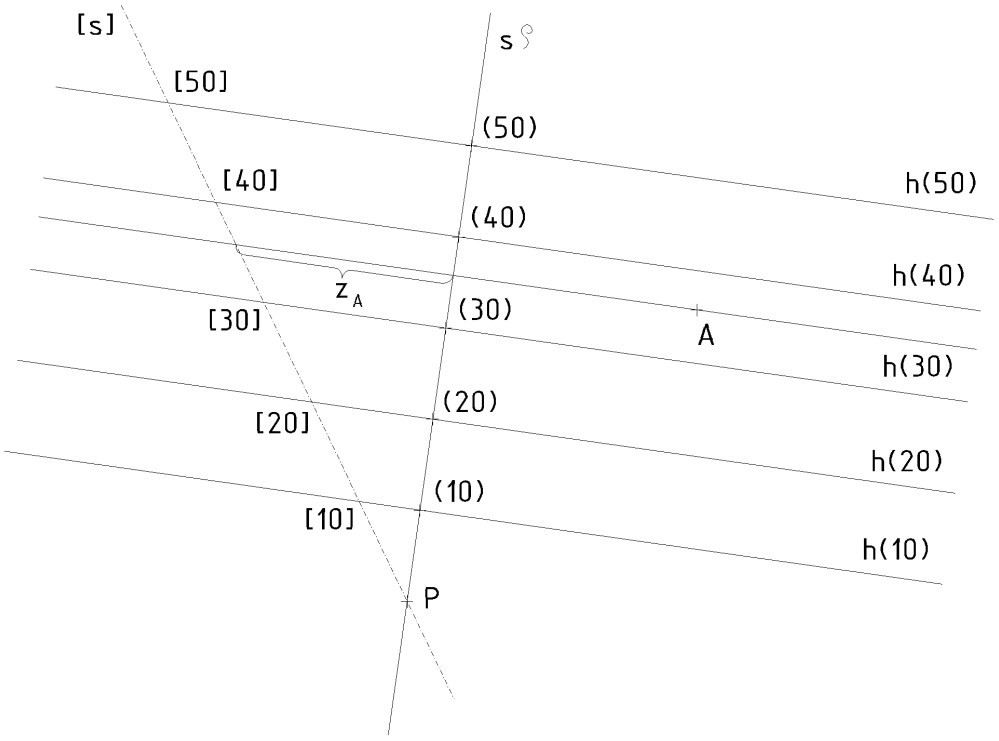




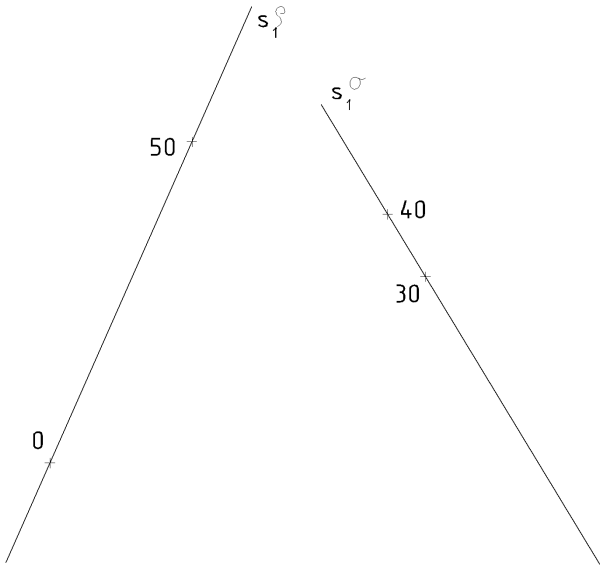


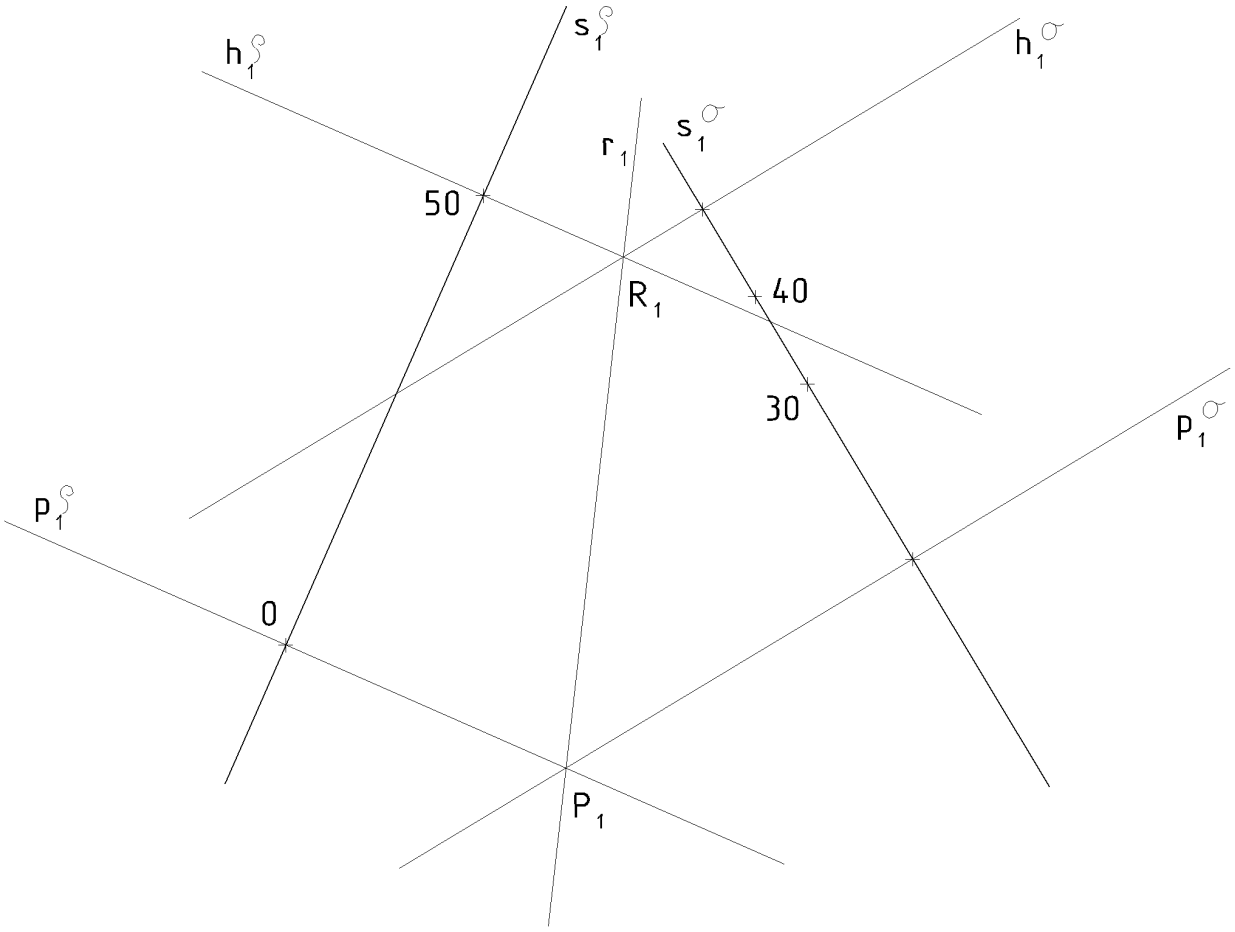
Příklad NP: D: KP, $\rho(s^{\rho})$, A $\in \rho$
S: kóta bodu *A*.



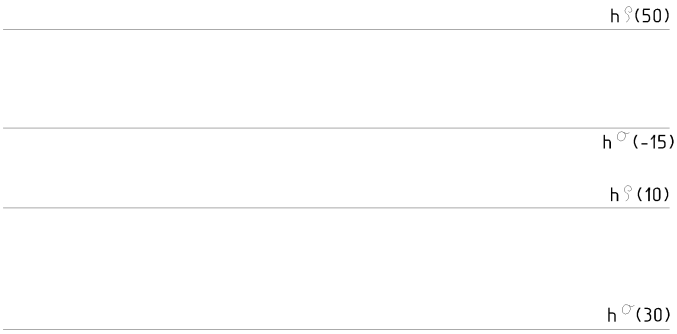


Příklad č. 24: D: KP, $\rho(s^{\rho})$, $\sigma(s^{\sigma})$
S: $r = \rho \cap \sigma$.

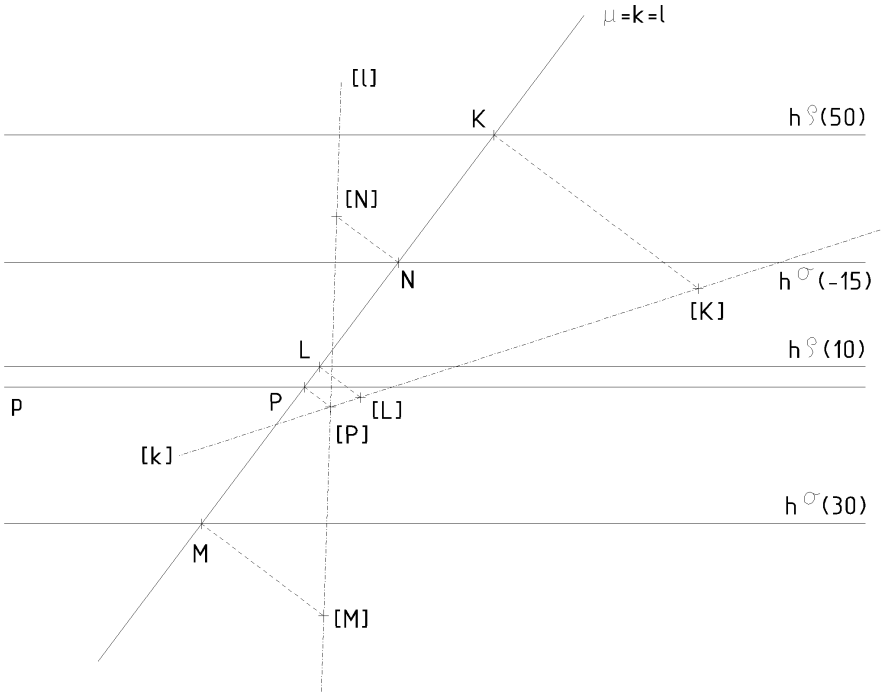
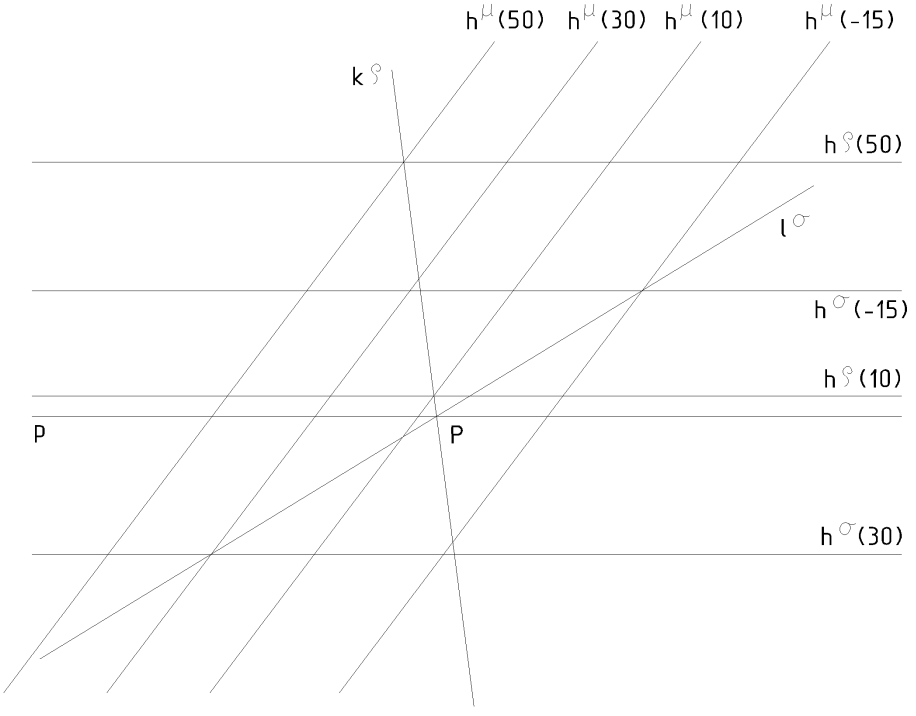




Příklad NP: D: KP, $\rho(h_1, h_2)$, $\sigma(h_1, h_2)$
S: $r = \rho \cap \sigma$.



a) $\mu \perp \pi$



b) μ – obecná