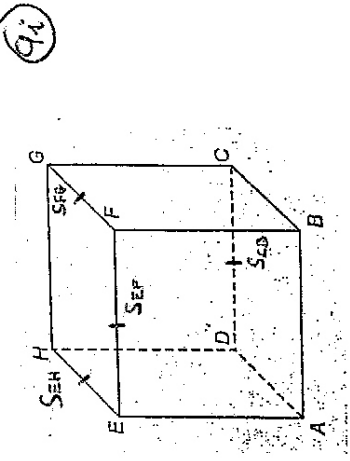
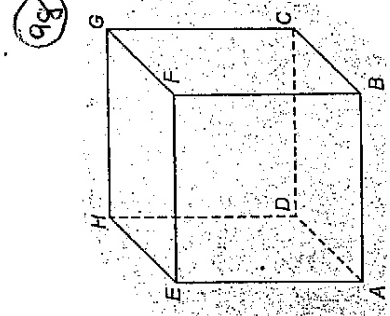
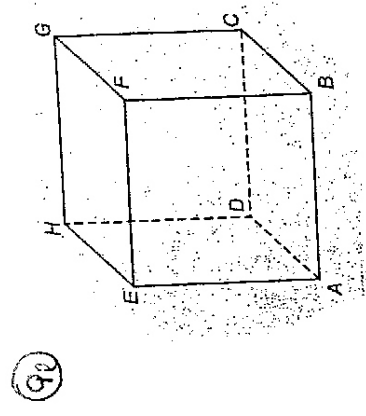
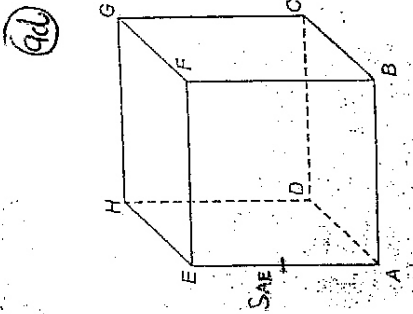
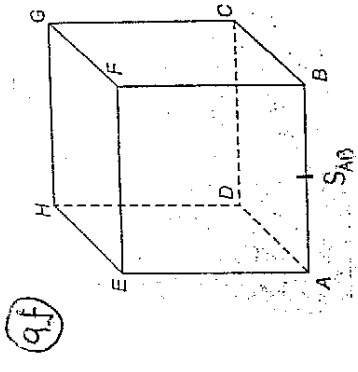
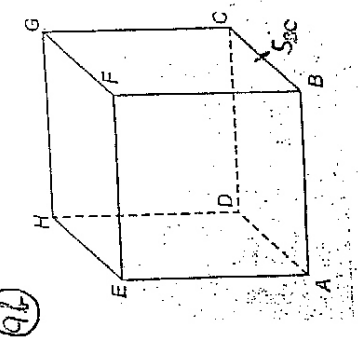
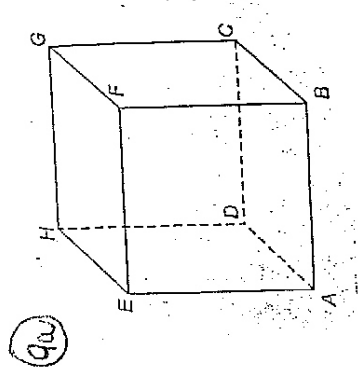


Průnik dvou rovin → URČENÍ PRŮSEČNICE

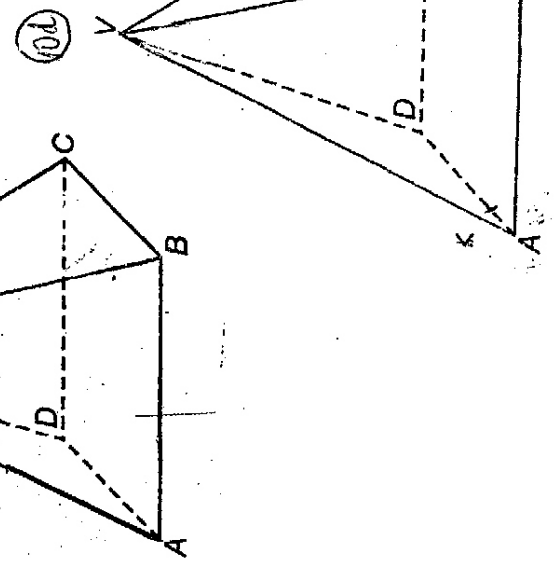
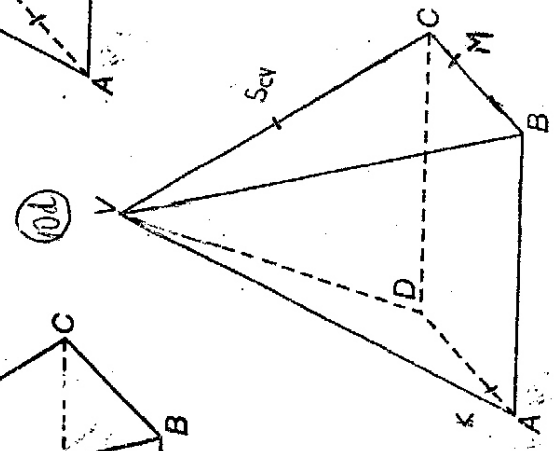
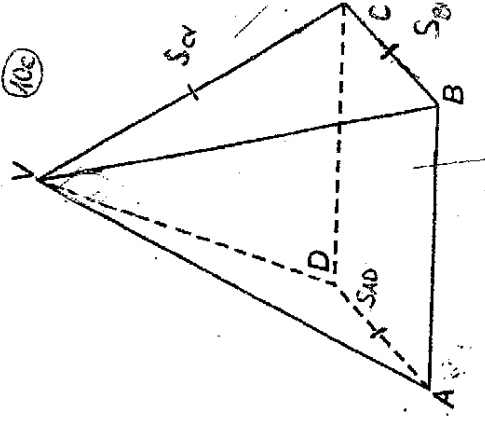
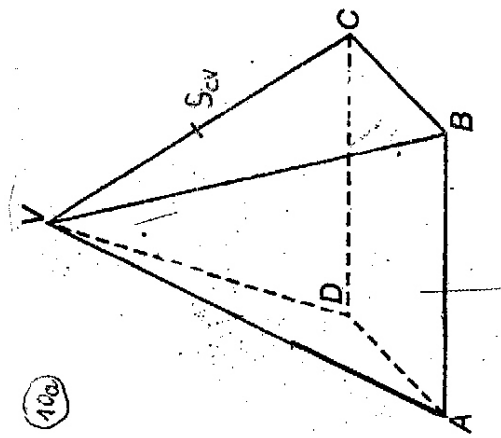
9) Je dána krychle ABCDEFGH. Sestrojte průsečnici rovin:

- a) ACE, AFH
- b) EGS_{EC}, BHF
- c) ABC, FHS_{AE}
- d) ACE, FHS_{AE}
- e) ABC, AFH
- f) ACF, CGS_{AB}
- g) AFH, BDG
- h) AEFSEH, CSCDSPG



10) Je dán pravidelný čtyřboký jehlan ABCDV. Sestrojte průsečnici rovin:

- a) ACV, BDS_{CV}
- b) ACV, BDS_{CV}
- c) ACS_{CV}, VS_{AD}S_{BC}
- d) BDV, M S_{CV}K; K ∈ AD ∩ |DK| = 3|AK|



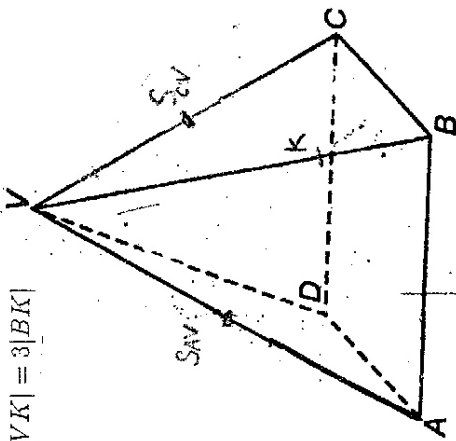
9h)

9i)

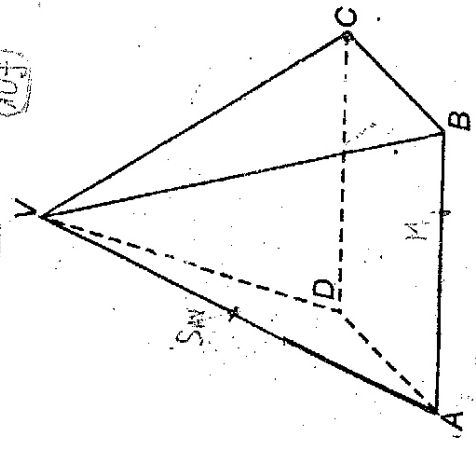
10) ÚŘÍ PRŮSEČNÍK ROVIN:

- e) $ABC, S_{AVK}; K \in BV \wedge |VK| = 3|BK|$
- f) BCV, S_{AVCM}

10e



10f



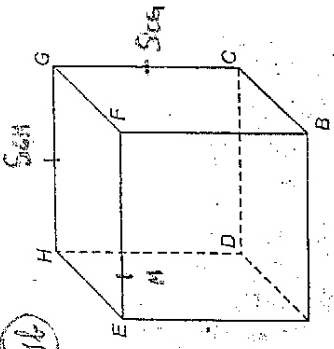
7

Průnik přímky s rovinou

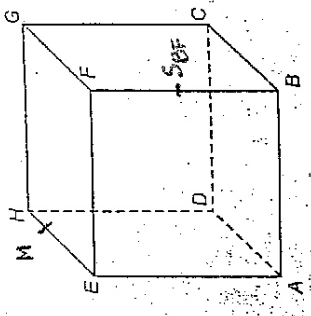
11) Je dána krychle ABCDEFGH. Sestrojte průsečík

- b) přímky FD s rovinou S_{HSCGM} ; $M \in EF \wedge |FM| = 3|EM|$,
- c) přímky EC s rovinou S_{BPFM} ; $M \in EH \wedge |EM| = 3|MH|$,
- d) přímky $SAEG$ s rovinou S_{SCGS} .

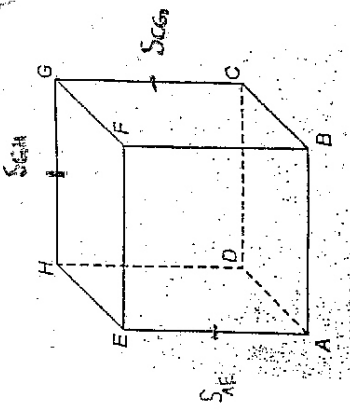
11b



11c



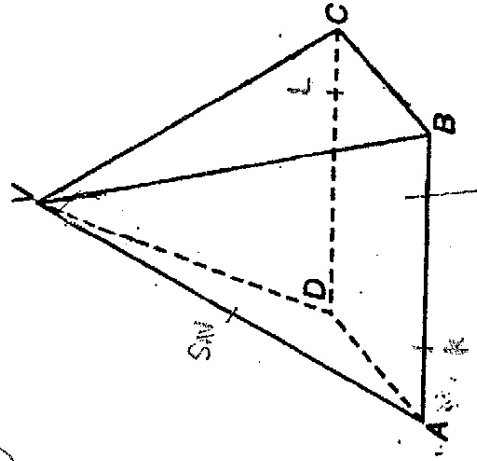
11d



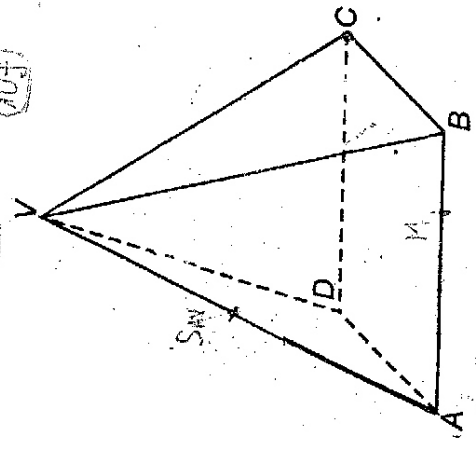
12) Je dán pravidelný čtyřboký jehlan ABCDV. Sestrojte průsečík

- a) přímky CS_{AV} s rovinou KL ; $K \in AB \wedge |BK| = 3|AK|, L \in CD \wedge |DL| = 3|CL|$,
- b) přímky VS_{AC} s rovinou S_{ABSCVD} ,
- c) přímky VS_{AC} s rovinou S_{BSCVD} ,

12a



12a



PRŮSEČNÍK ROVIN
Sestrojte průsečík

PRŮSEČNÍK ROVIN
Sestrojte průsečík

PRŮSEČNÍK ROVIN
Sestrojte průsečík

PRŮSEČNÍK ROVIN
Sestrojte průsečík

PRŮSEČNÍK ROVIN
Sestrojte průsečík

PRŮNIK PŘÍMKY S TĚLESEM

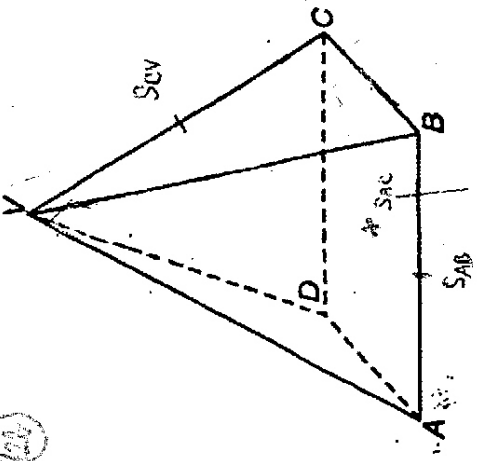
8

PRŮNIK PŘÍMKY A ROVINY

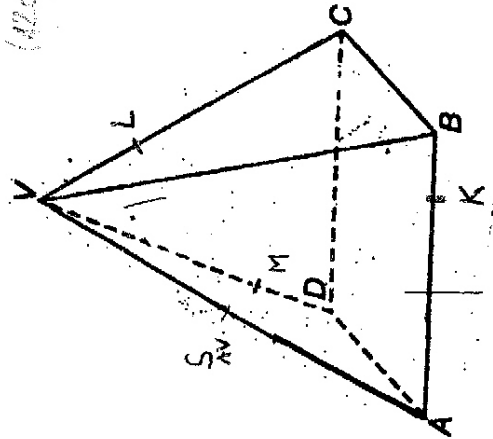
- d) přímky CS_{AV} s rovinou KLM ,
 $K \in AB \wedge |AK| = 3|BK|$,
 $L \in CV \wedge |CL| = 2|VL|$, $M \in DV \wedge |MV| = 3|DM|$.

$\Leftrightarrow VS_{AC} \cap \Leftrightarrow S_{AB} S_{CV} D = \{P\}$
 KDE JE BOD P ?

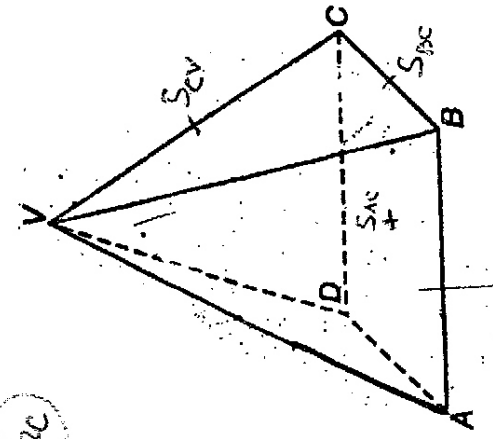
120



121



122



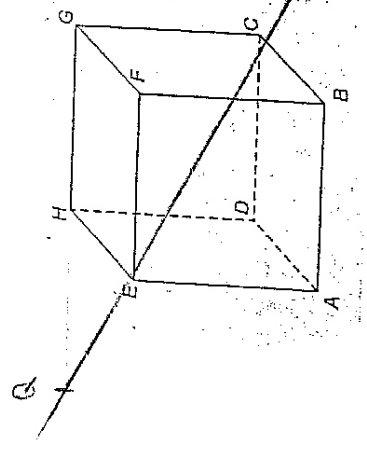
$\Leftrightarrow VS_{AC} \cap \Leftrightarrow S_{AB} S_{CV} = ?$

Průnik přímky s povrchem tělesa

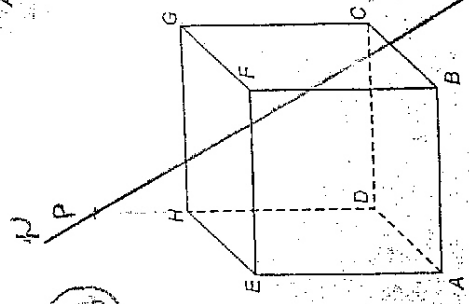
13 Je dána krychle $ABCDEFGH$. Sestrojte průnik přímky PQ s povrchem krychle. Pro body P, Q platí:

- a) $B = S_{AP}, H = S_{CQ}$
- b) $P \in \rightarrow DH, |DP| = 1,5|DH|, B = S_{QD}$
- c) $P \in \rightarrow CB, |CP| = 1,5|BC|, Q \in \rightarrow EH, |EQ| = 1,5|EH|$
- d) $P \in \rightarrow FB, |FP| = 1,25|BF|, Q \in \rightarrow DH, |DQ| = 1,25|DH|$

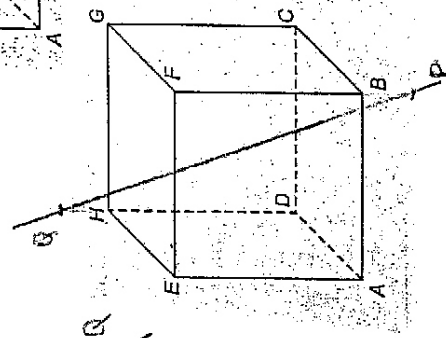
1300



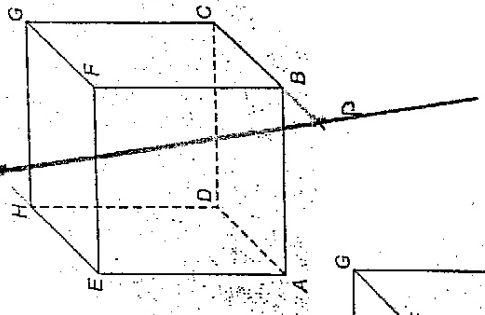
1301



1302



1303

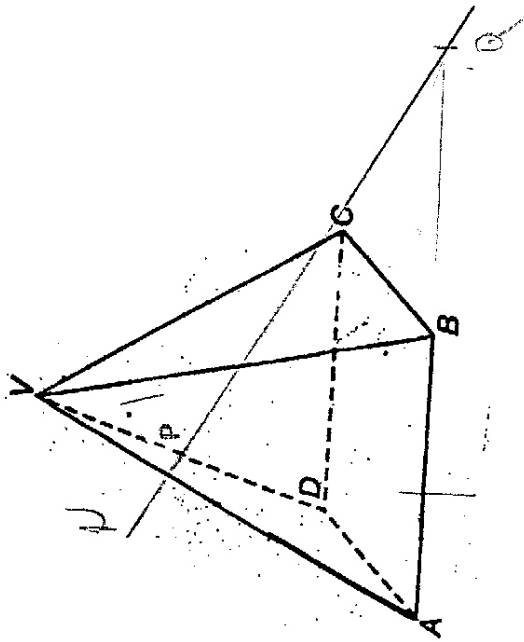


-9-

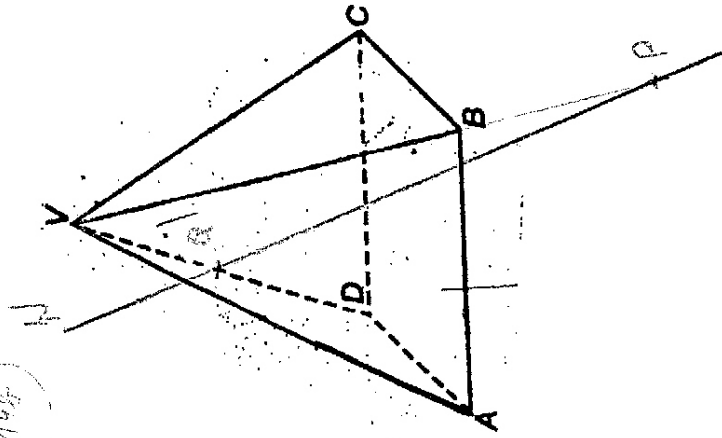
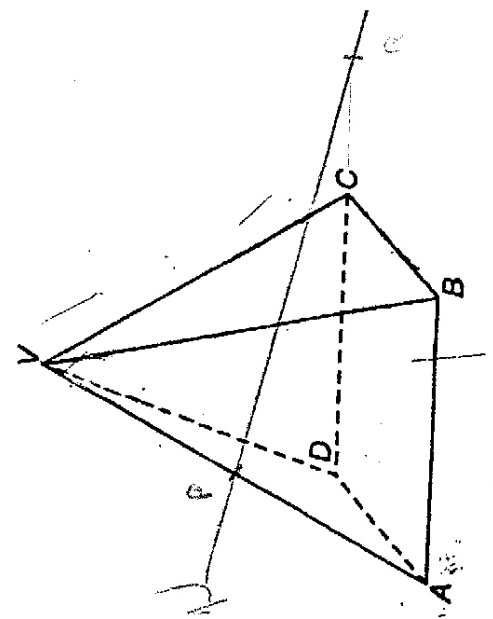
14b

14) Je dán pravidelný čtyřboký jehlan $ABCDV$. Sestrojte průnik přímky PQ s povrchem jehlanu. Pro body P, Q platí:

- a) $P \in S_{DV}, B \in S_{AQ}$
- b) $P \in \text{pr} \{VB\}, |VP| = 1,5|VB|, Q \in S_{DV}$
- c) $P \in S_{AV}, Q \in \text{pr} \{DC\} \cap |DQ| = 1,5|DC|$



14c



4/1