

Školení SolidWorks 2014: **Plochy**

Zuzana Smrčková

24. března 2015

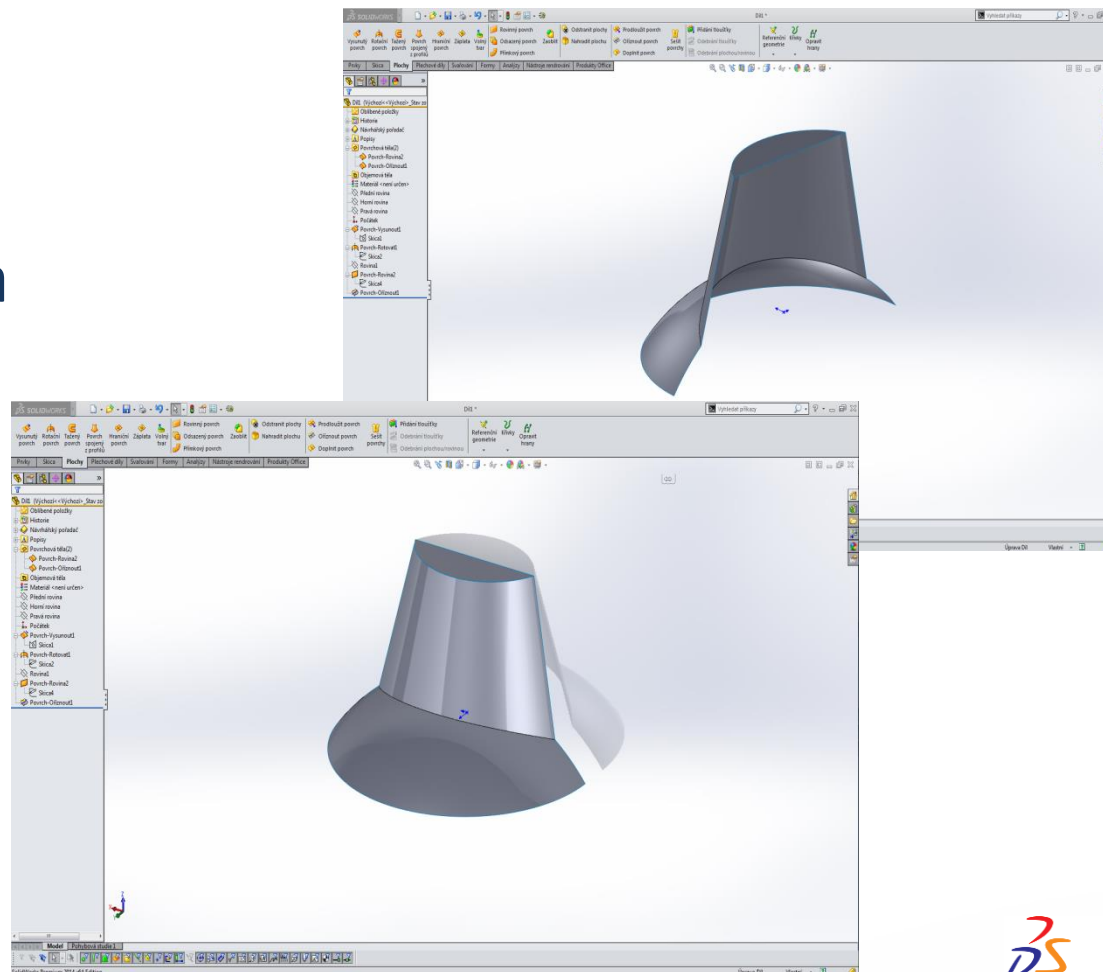
Obsah školení

- **Lekce 1:** Základní principy plošného modelování
- **Lekce 2:** Vytvoření tenkostěnného tělesa
- **Lekce 3:** Vytvoření objemového tělesa
- **Lekce 4:** Vytvoření objemového tělesa - plošné a objemové operace
- **Lekce 5:** Importovaná geometrie a její úpravy
- **Lekce 6:** Opravy importované geometrie
- **Lekce 7:** Pokročilé techniky modelování ploch
- **Závěr**

Lekce 1: Základní princip plošného modelování

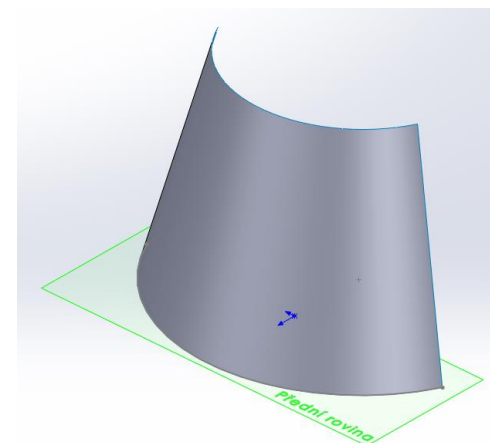
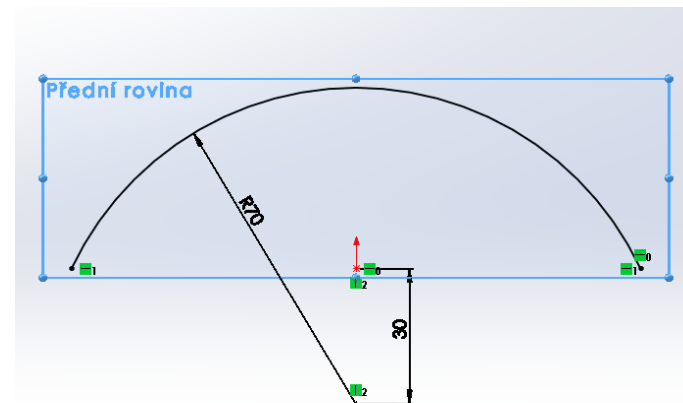
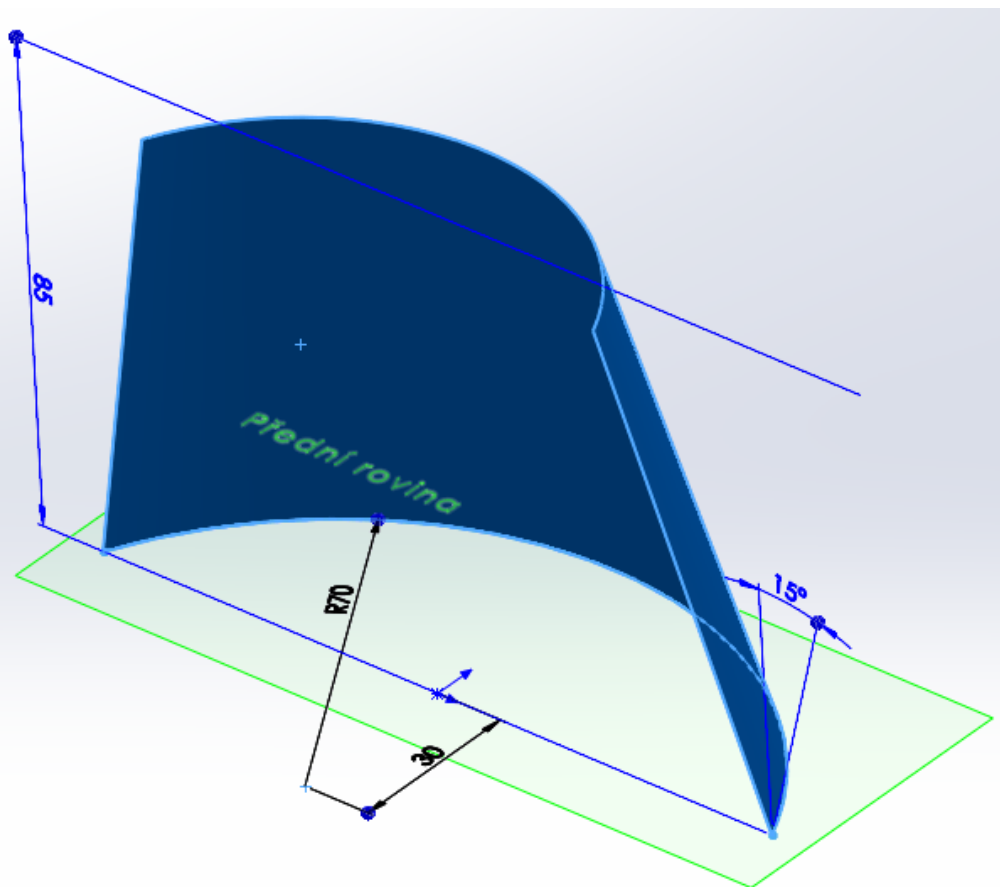


- Vysunutý povrch
- Rotační povrch
- Referenční rovina
- Rovinný povrch
- Oříznout povrch
(standardní, vzájemné)



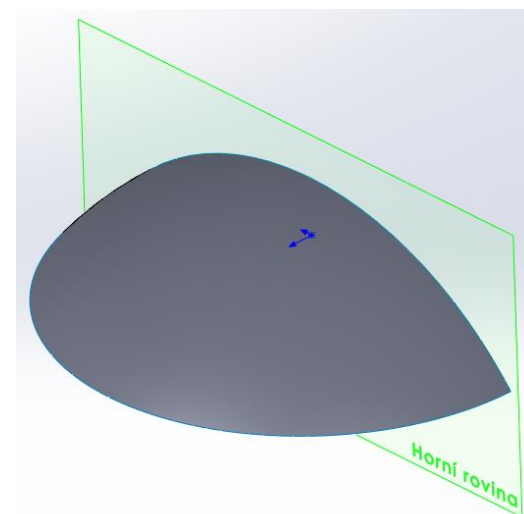
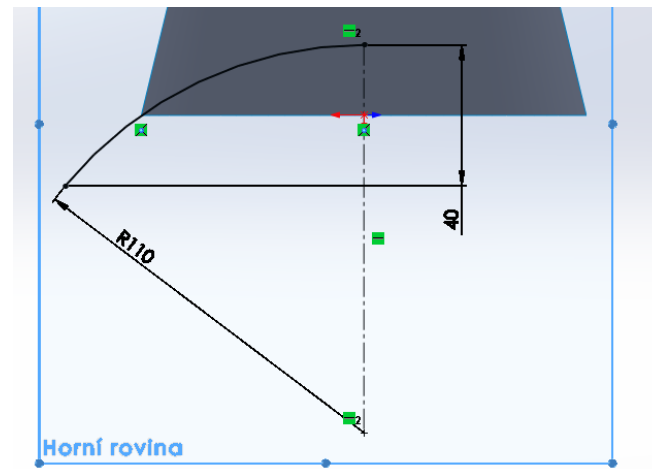
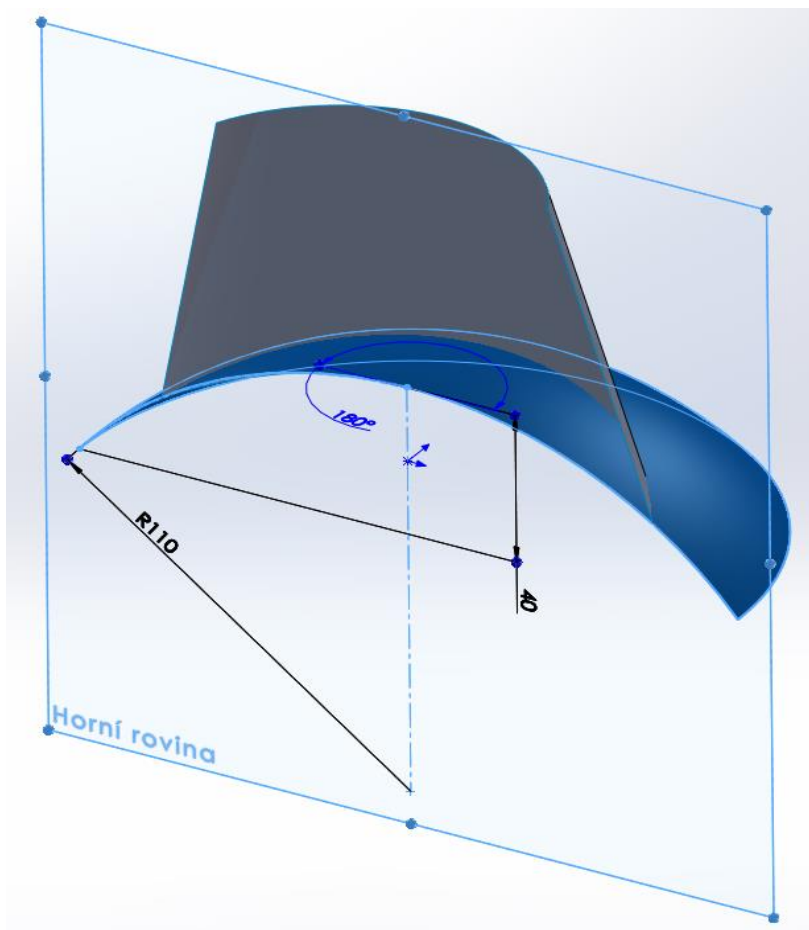
: 01-Základní principy.SLDPRT

Lekce 1: Vysunutý povrch

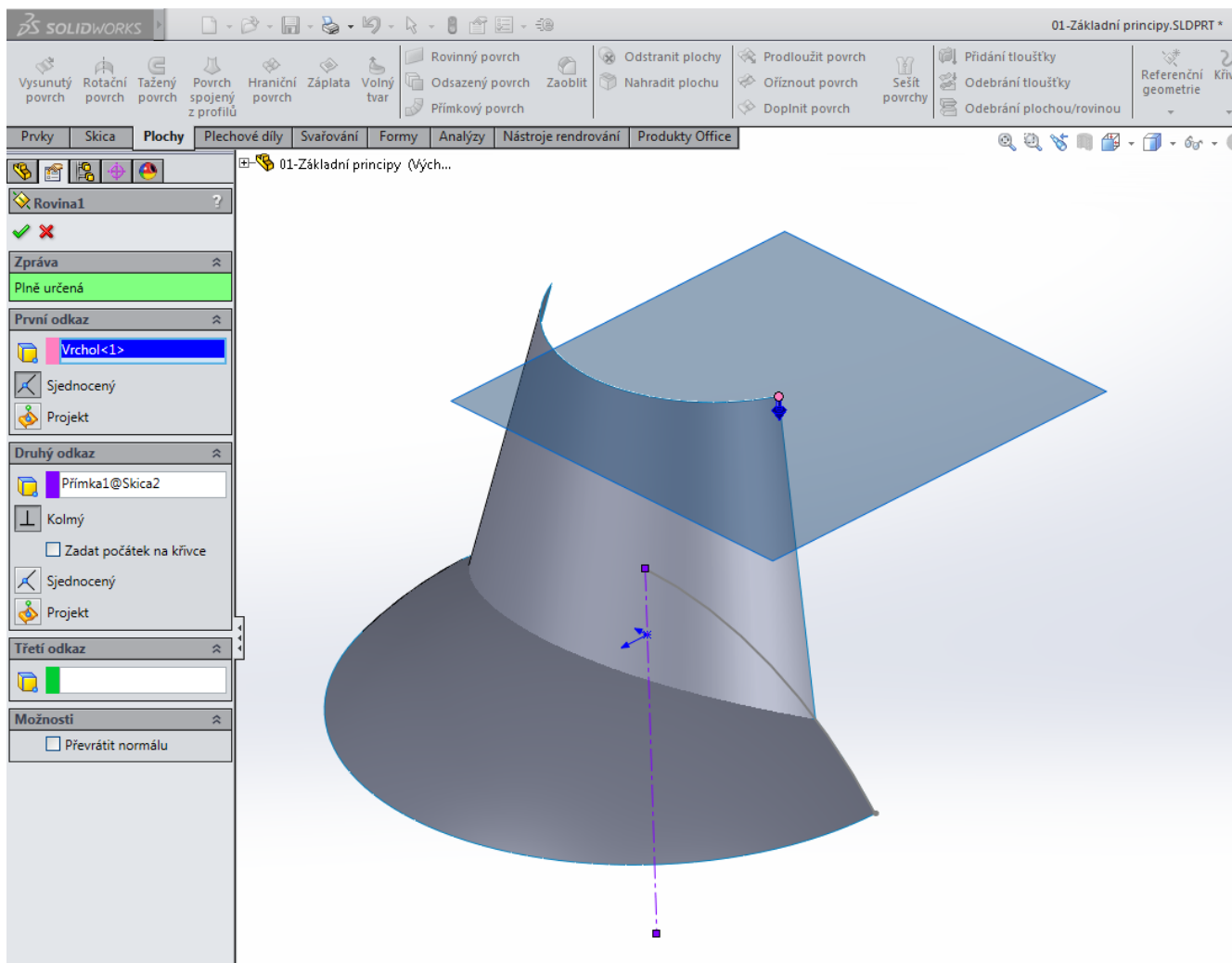


: 01-Základní principy.SLDPRT

Lekce 1: Rotační povrch

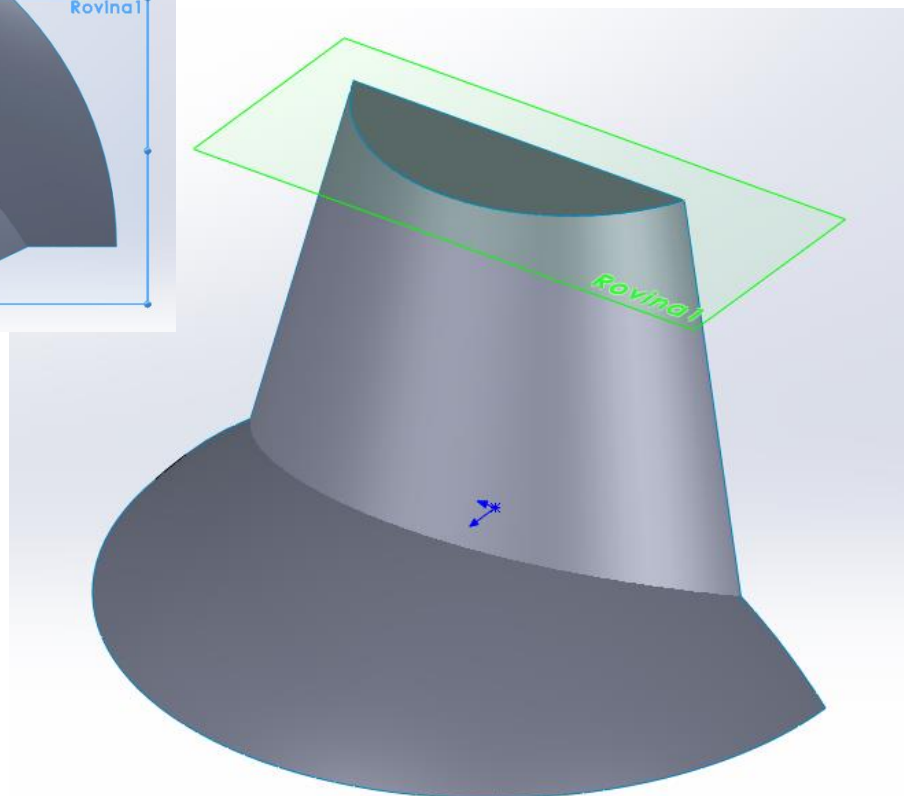
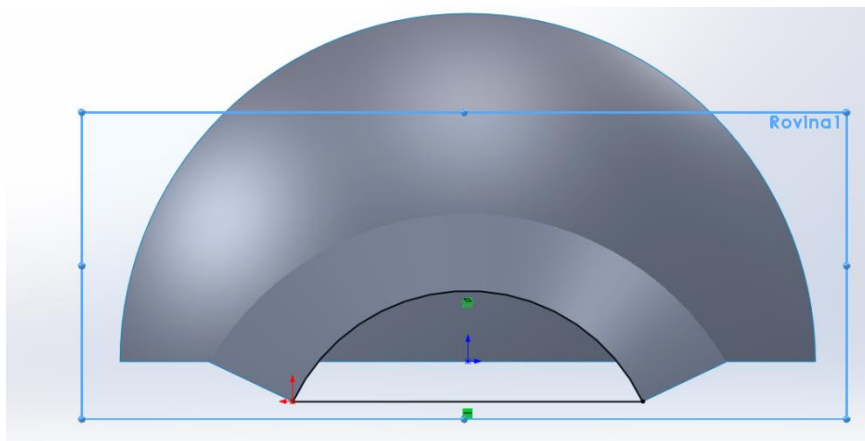


Lekce 1: Rovina



: 01-Základní principy.SLDPRT

Lekce 1: Referenční rovina

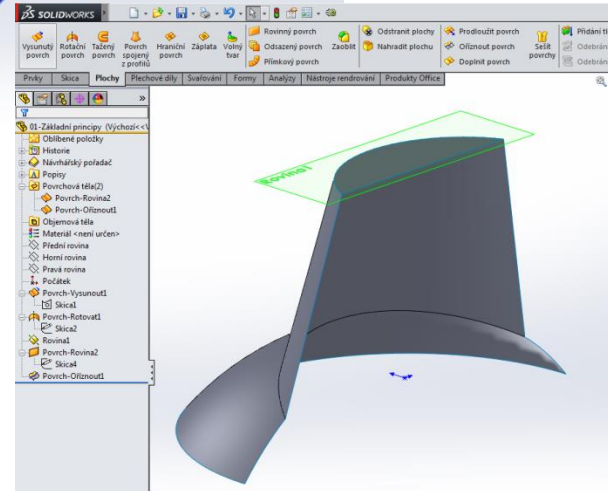
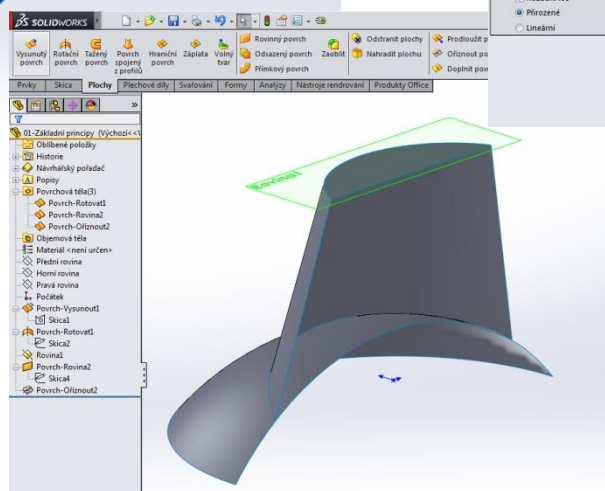
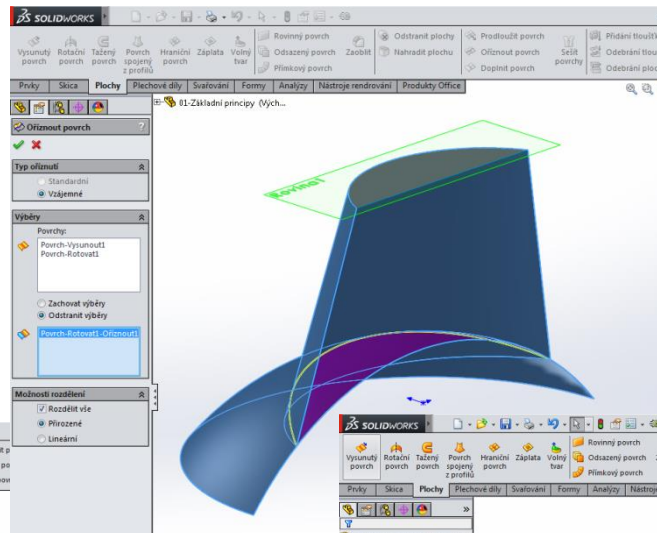
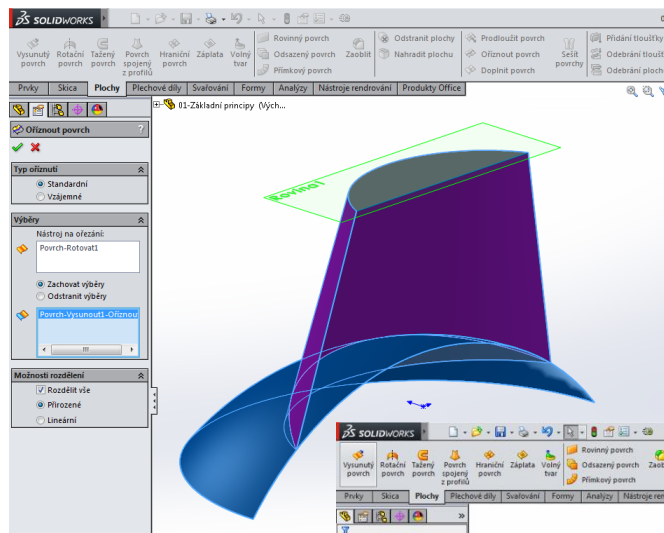


Lekce 1: Oříznout povrch



Standardní

Vzájemné

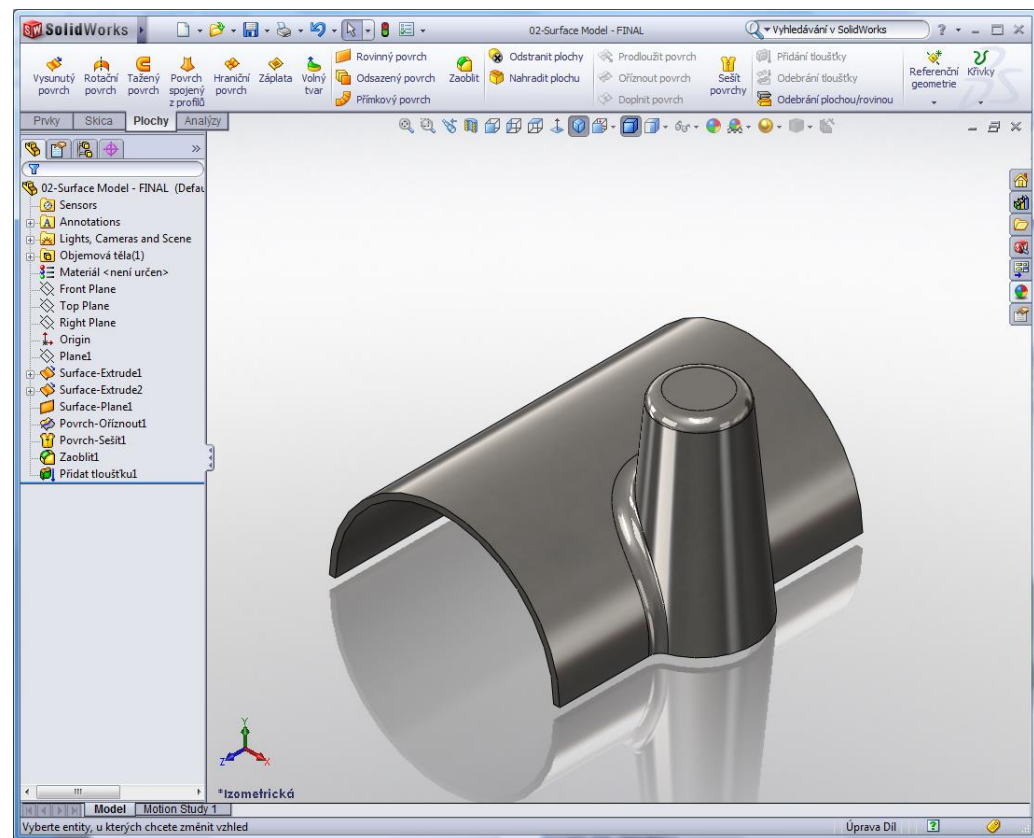


: 01-Základní principy.SLDPRT



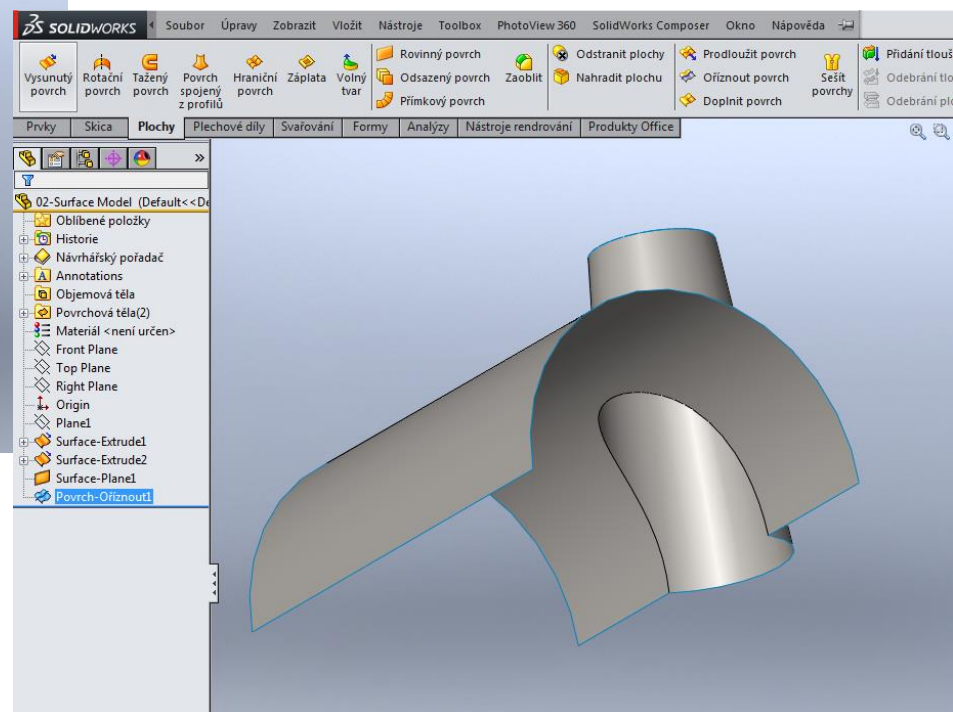
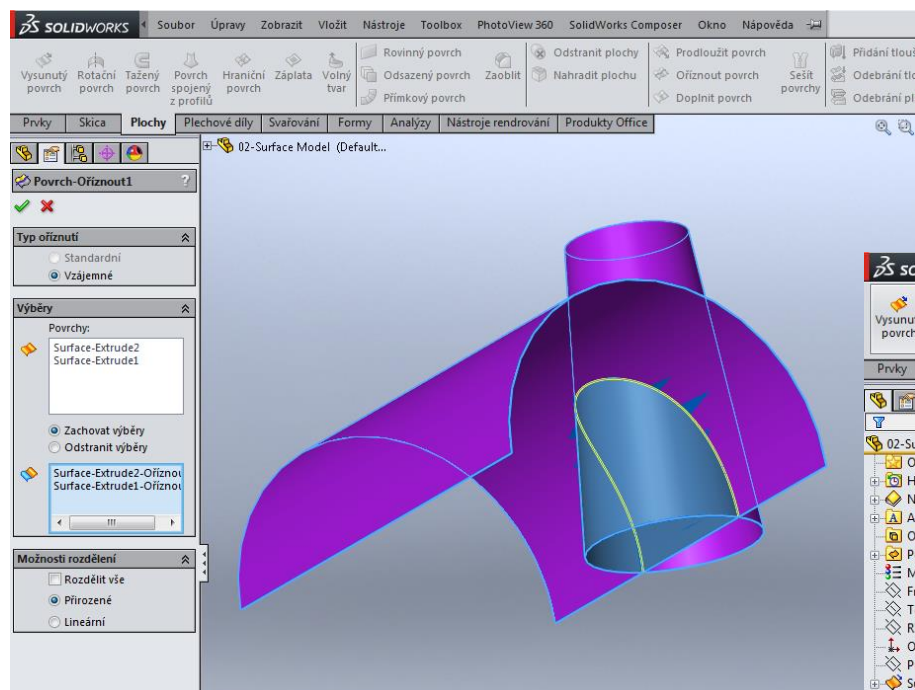
Lekce 2: Vytvoření tenkostěnného tělesa

- Oříznout povrch
- Sešít povrchy
- Zaoblit
- Přidání tloušťky



: 02-Surface Model.SLDPRT

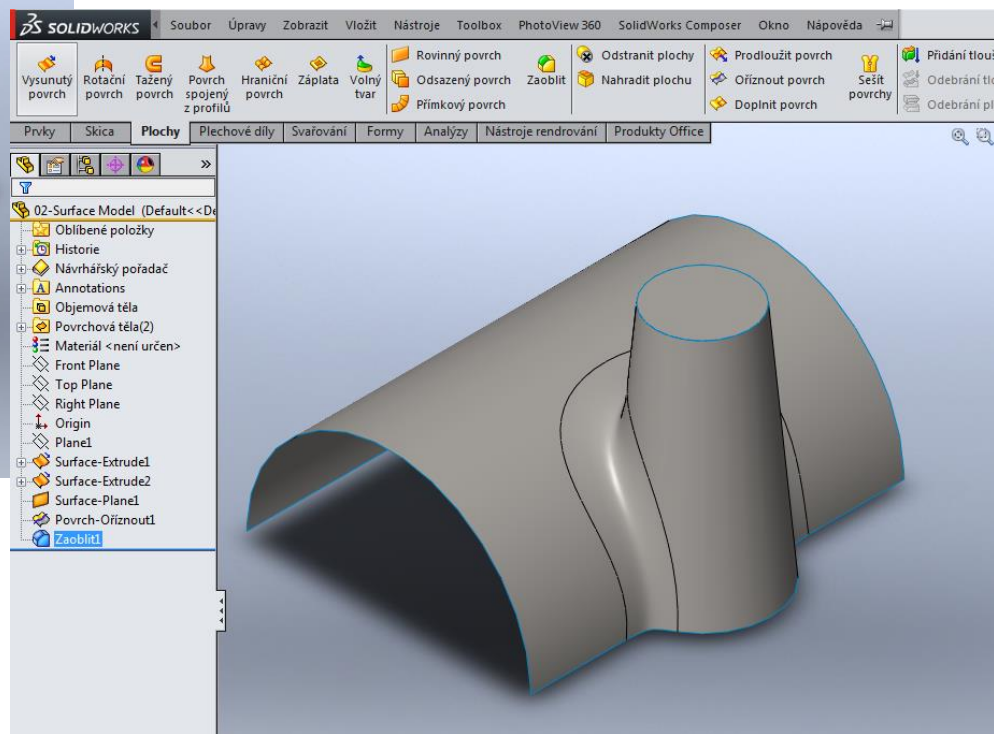
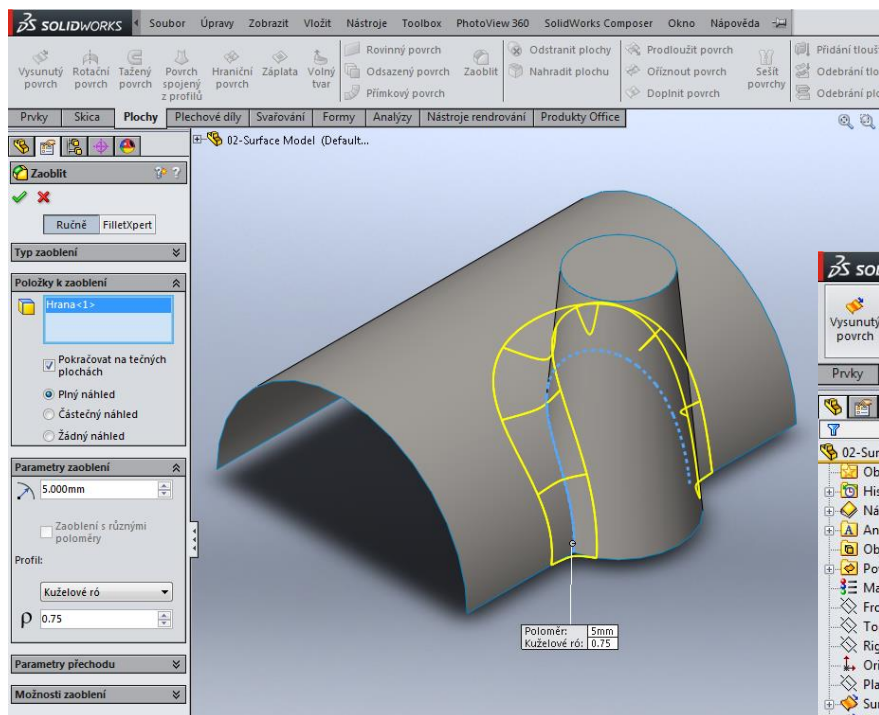
Lekce 2: Oříznout povrch



: 02-Surface Model.SLDPRT



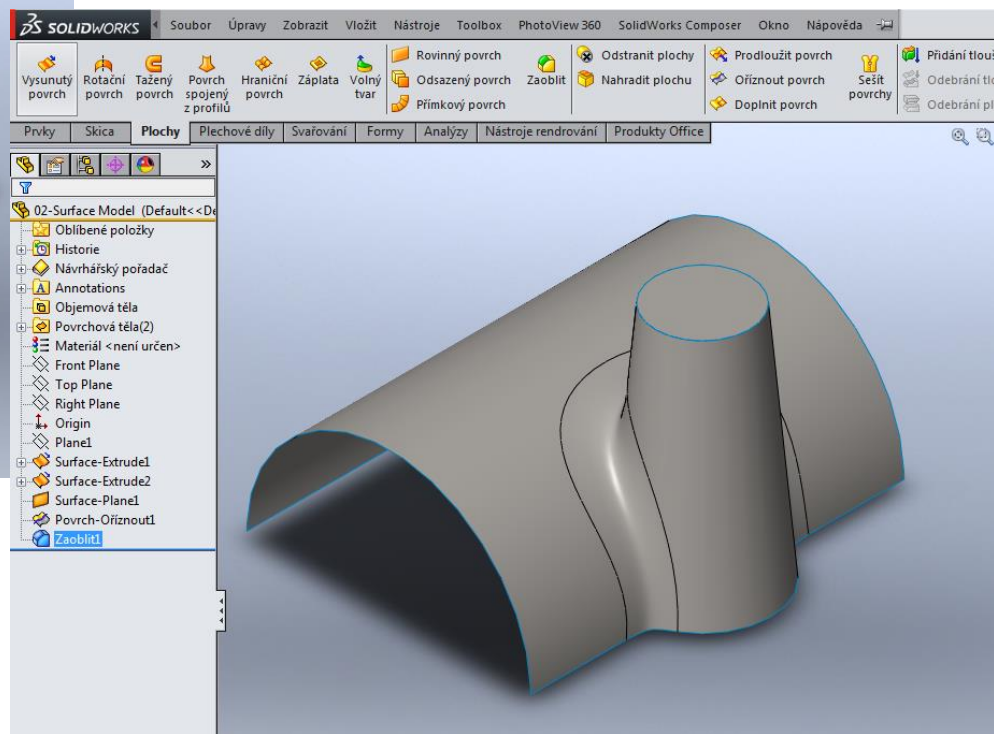
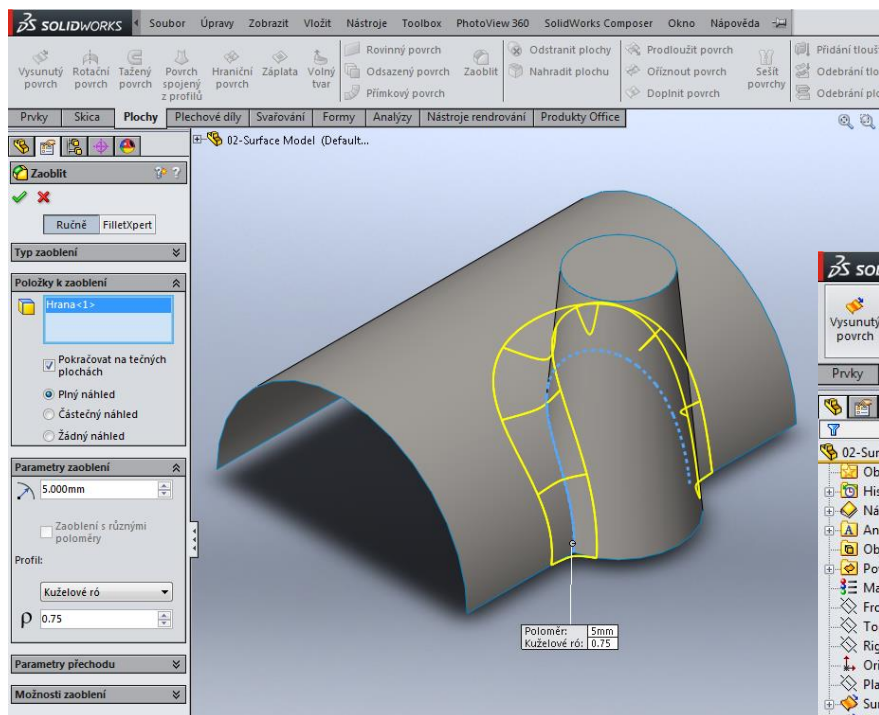
Lekce 2: Zaoblit



: 02-Surface Model.SLDPRT



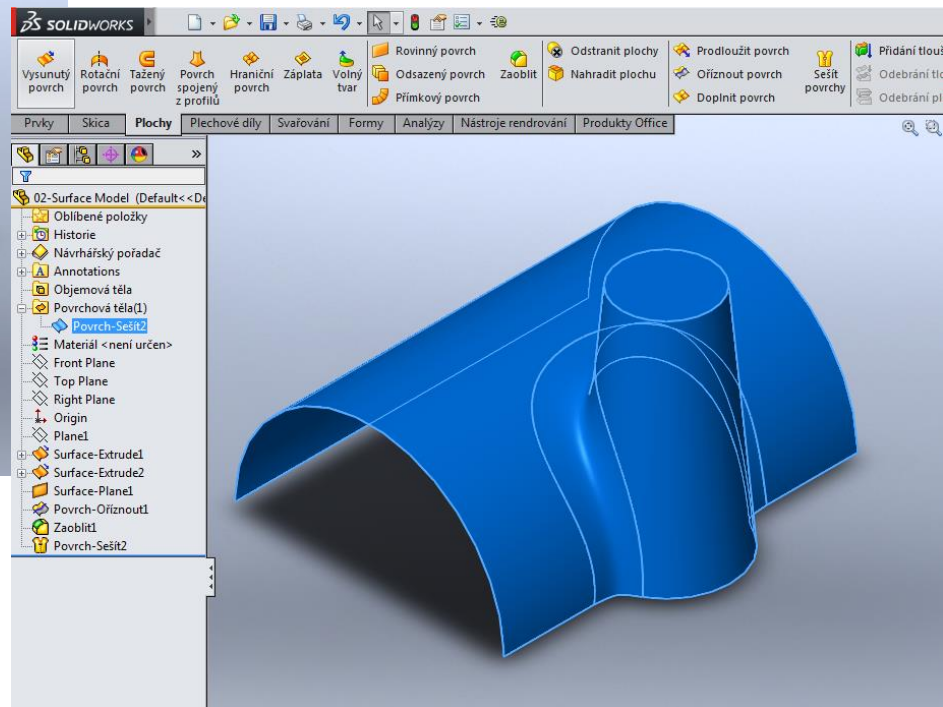
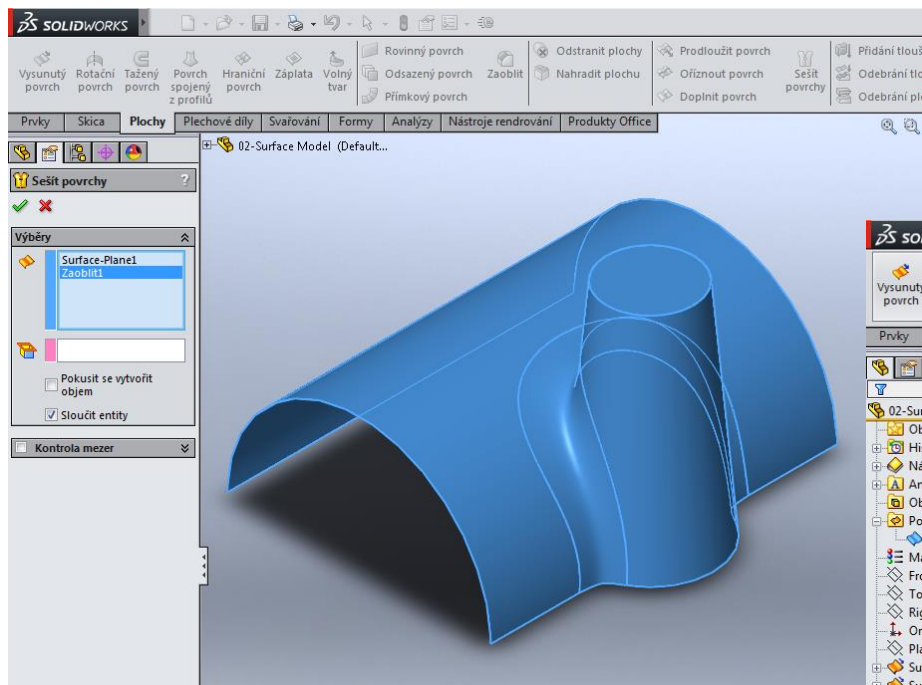
Lekce 2: Zaoblit



: 02-Surface Model.SLDPRT



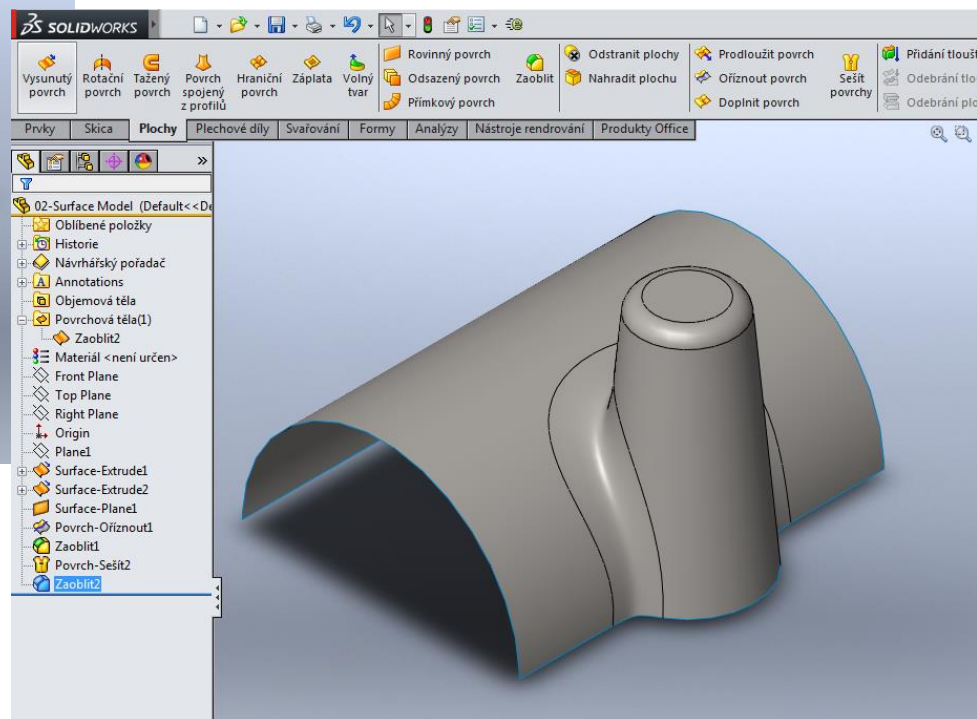
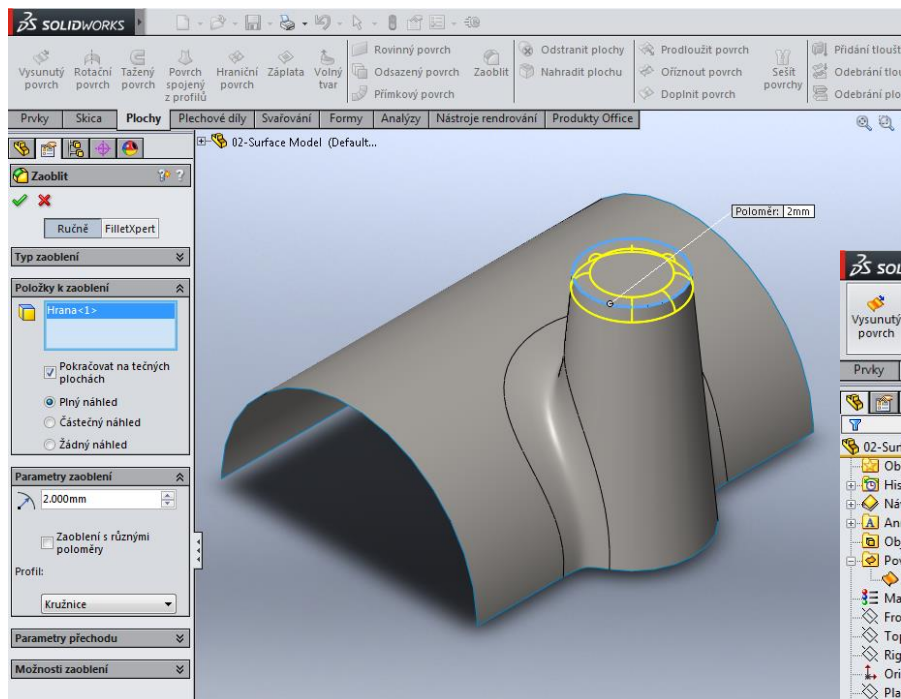
Lekce 2: Sešít povrchy



: 02-Surface Model.SLDPRT



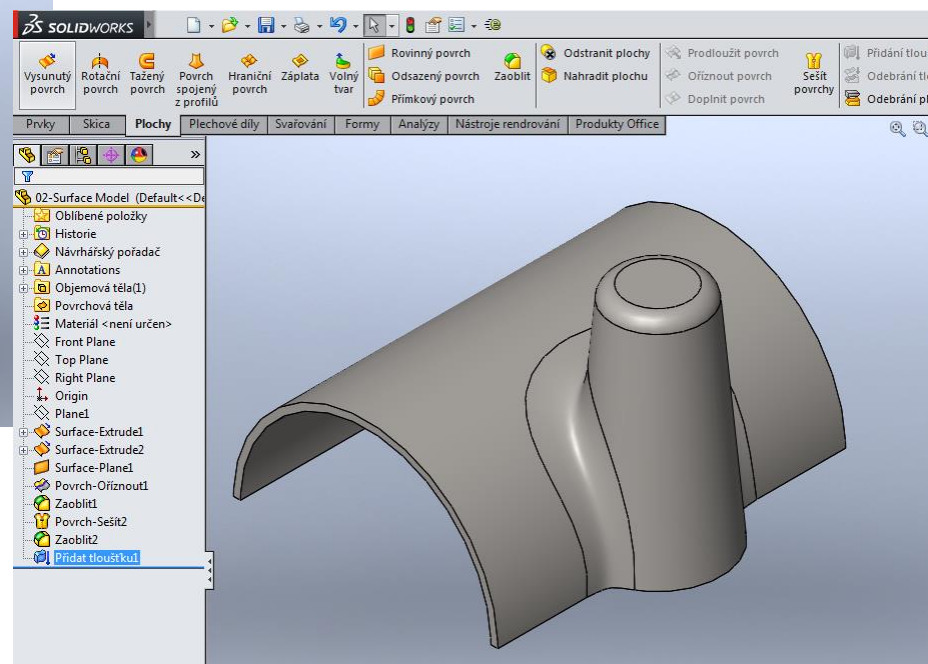
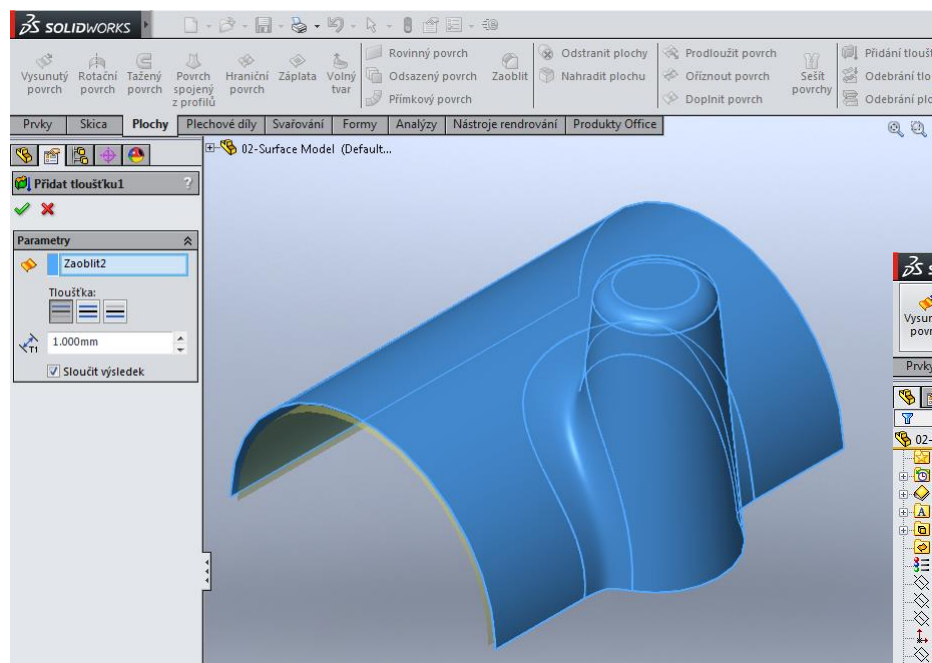
Lekce 2: Zaoblit



: 02-Surface Model.SLDPRT



Lekce 2: Přidání tloušťky

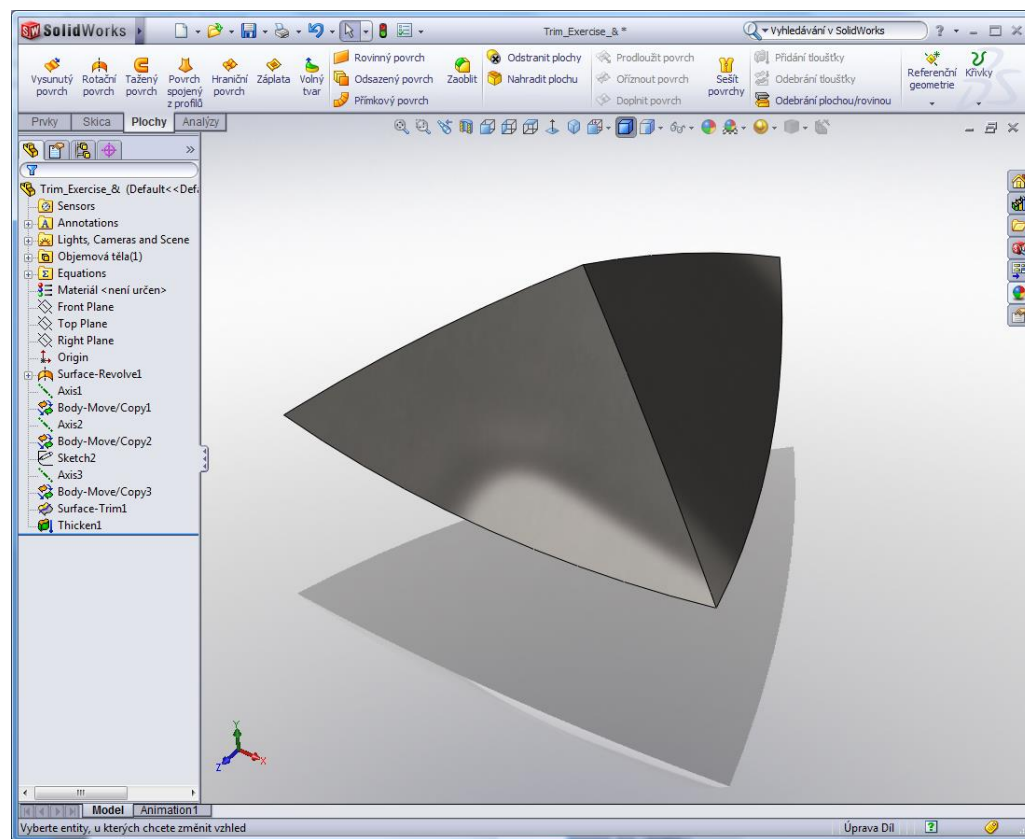


: 02-Surface Model.SLDPRT

Lekce 3: Vytvoření objemového tělesa

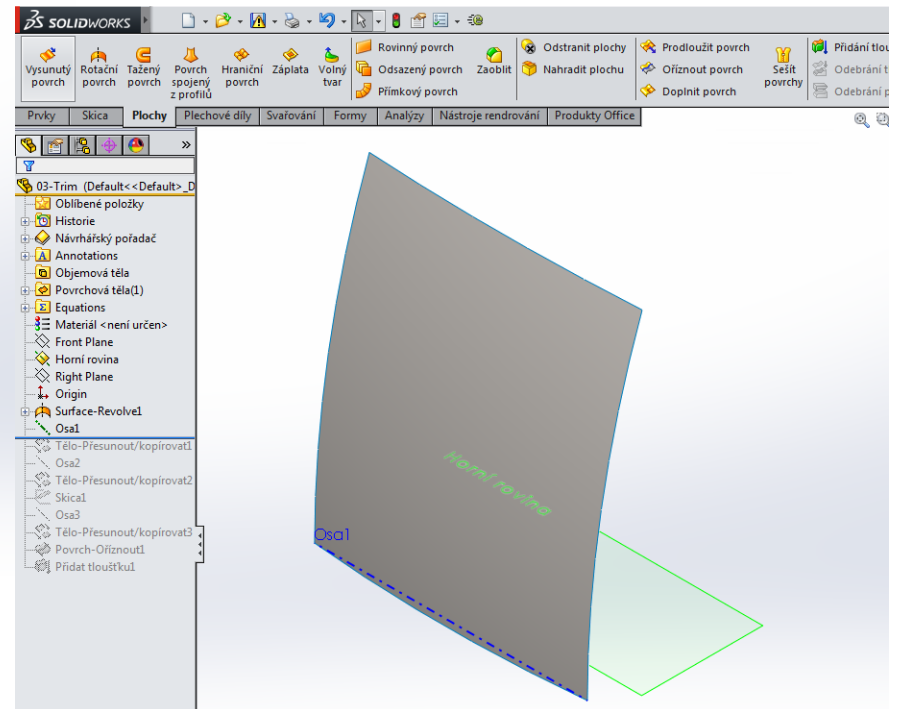
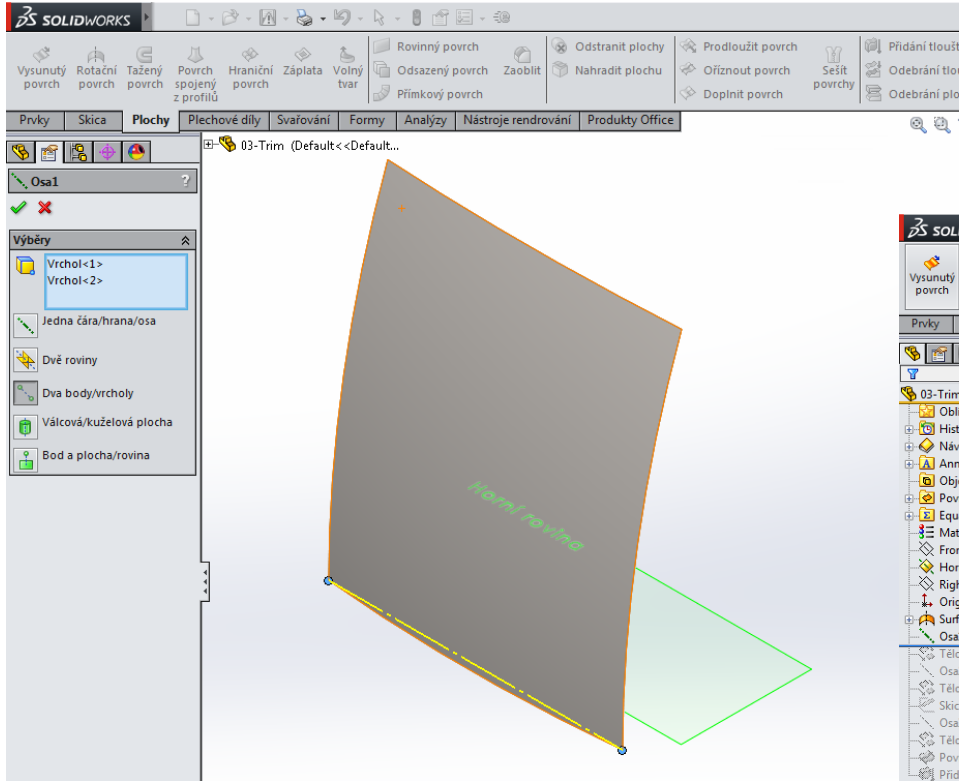


- Osa
- Přesunout/Kopírovat
- Oříznout povrch
- Přidání tloušťky



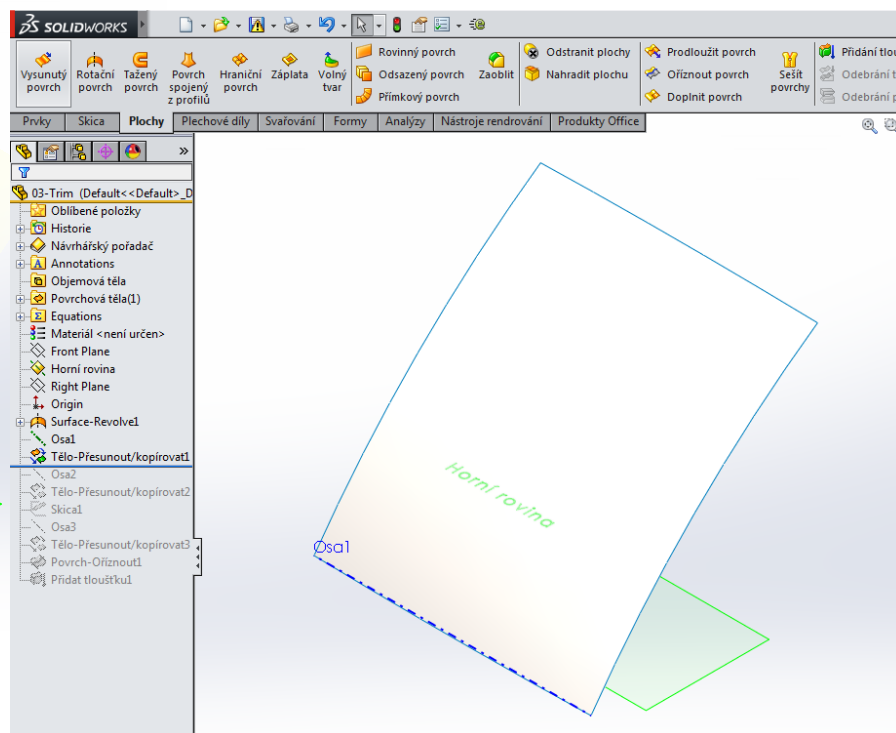
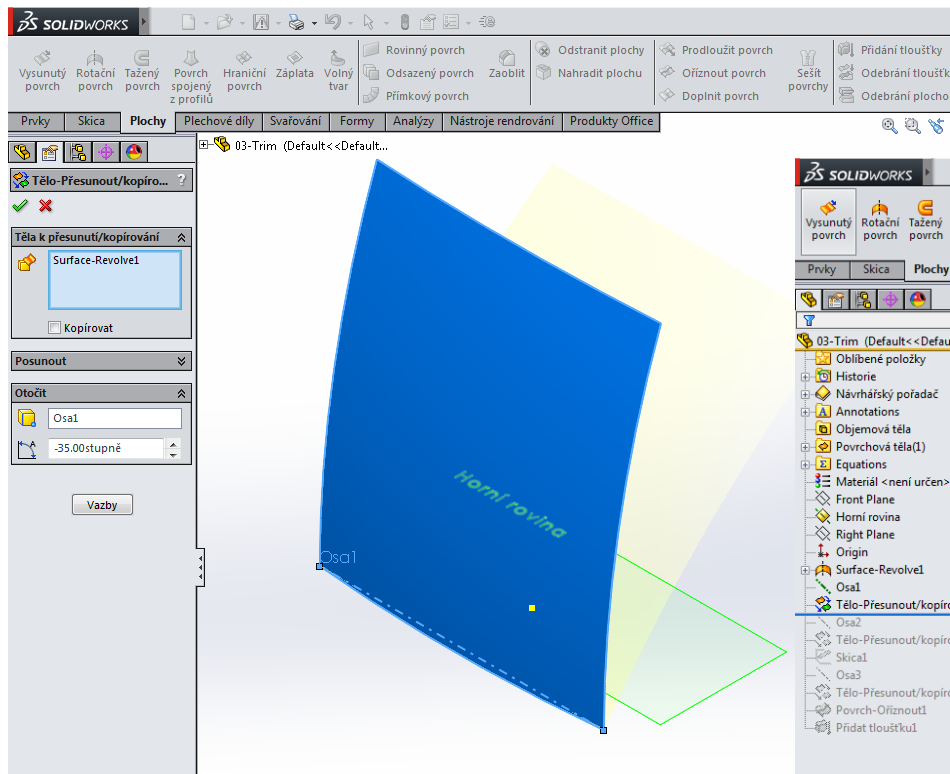
: 03-Trim.SLDPRT

Lekce 3: Osa



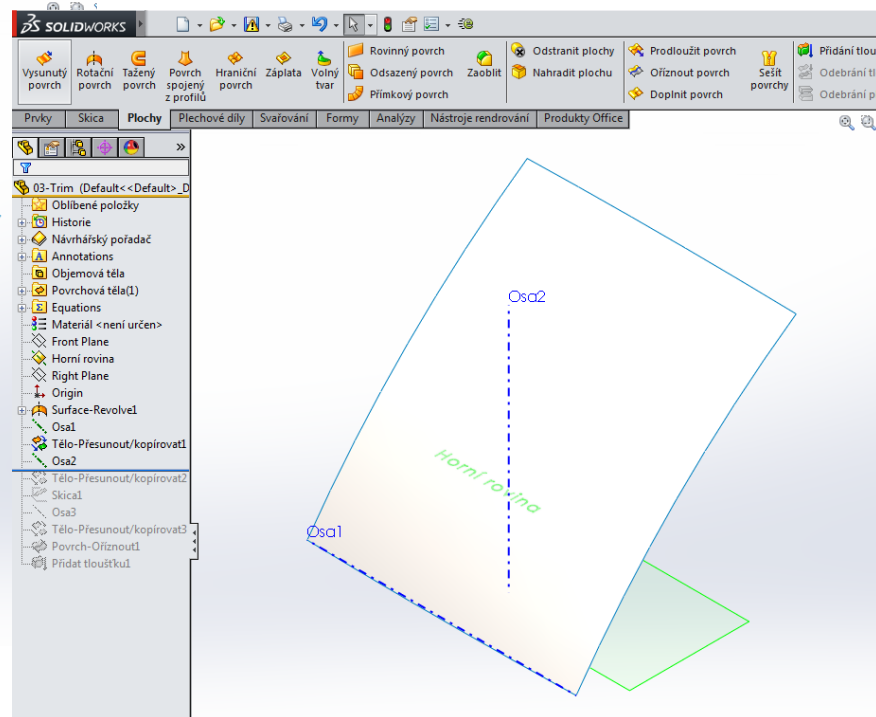
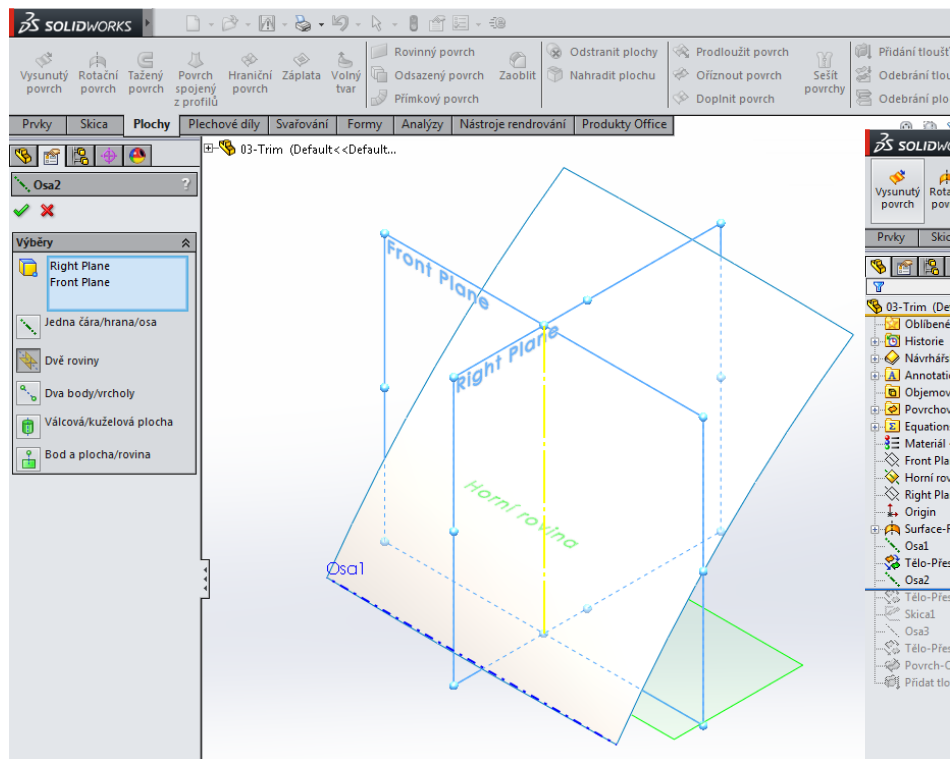
: 03-Trim.SLDPRT

Lekce 3: Přesunout/Kopírovat



: 03-Trim.SLDPRT

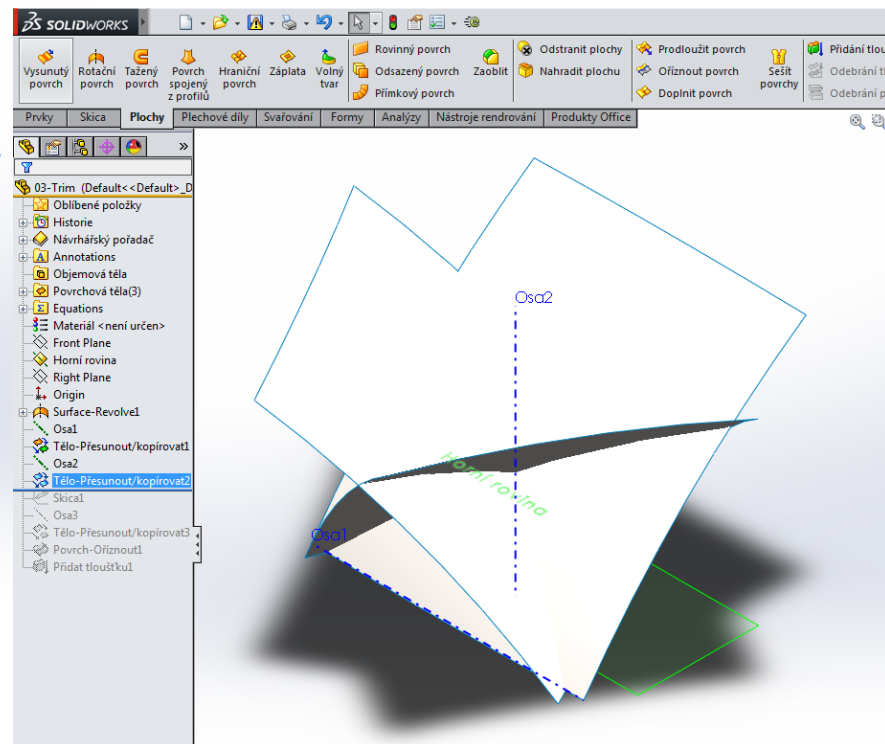
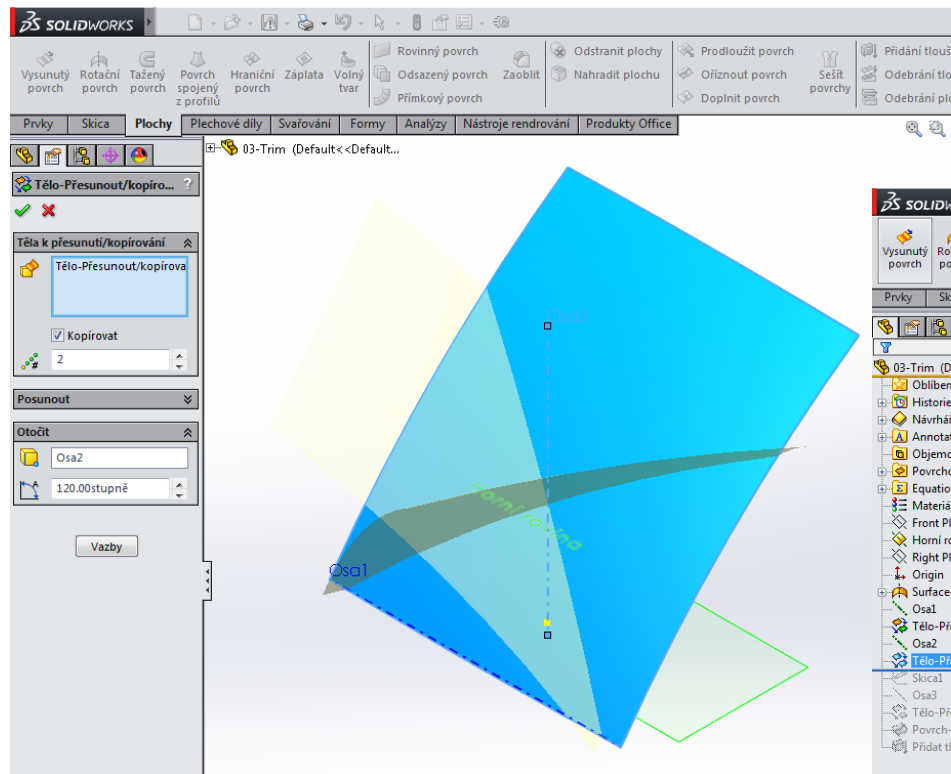
Lekce 3: Osa



: 03-Trim.SLDPRT



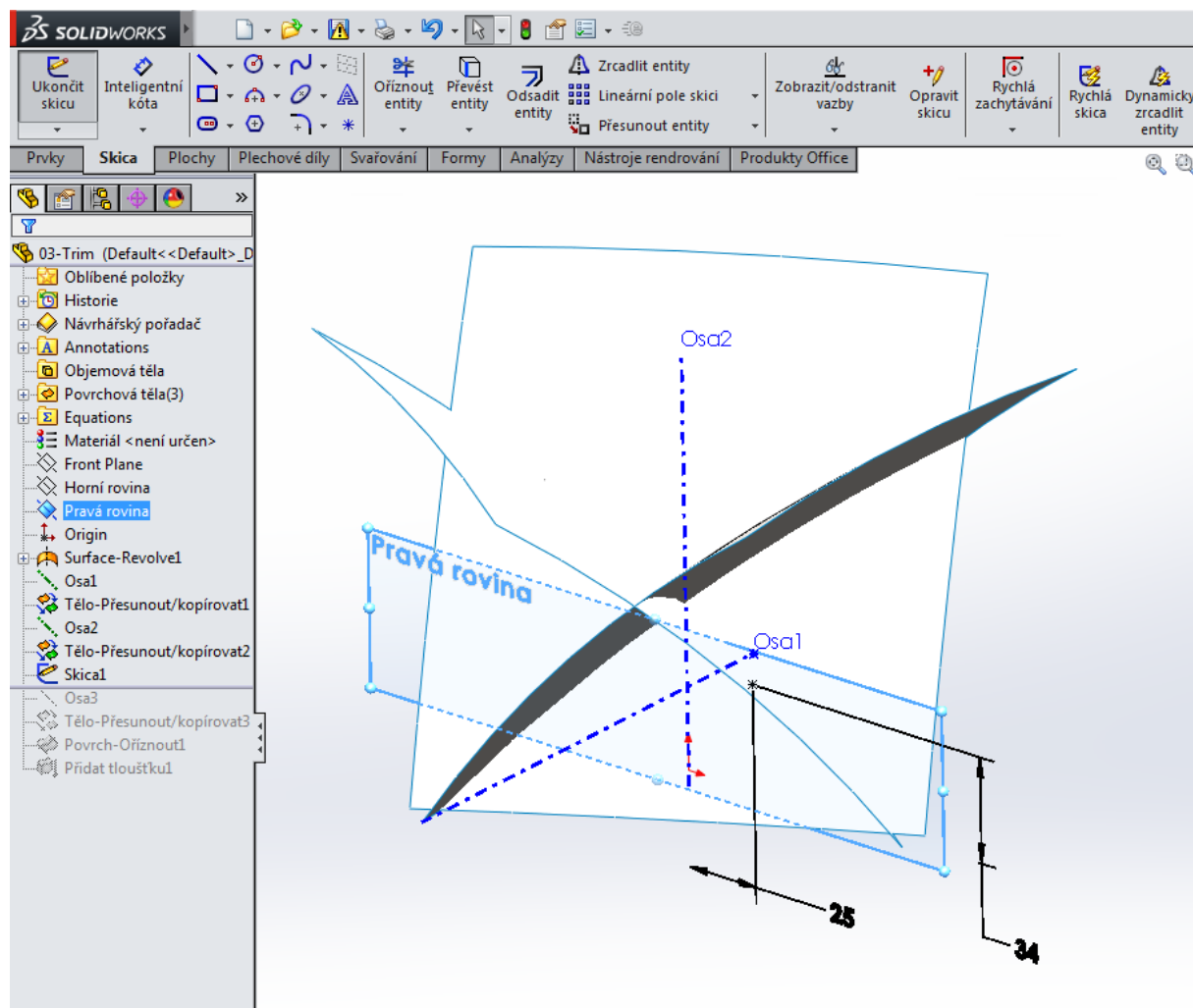
Lekce 3: Přesunout/Kopírovat



: 03-Trim.SLDPRT

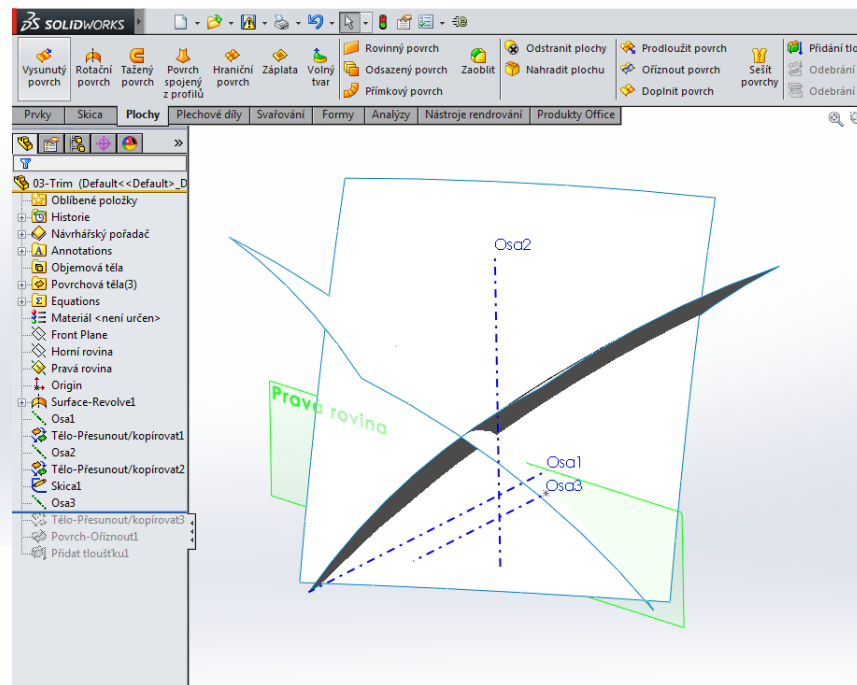
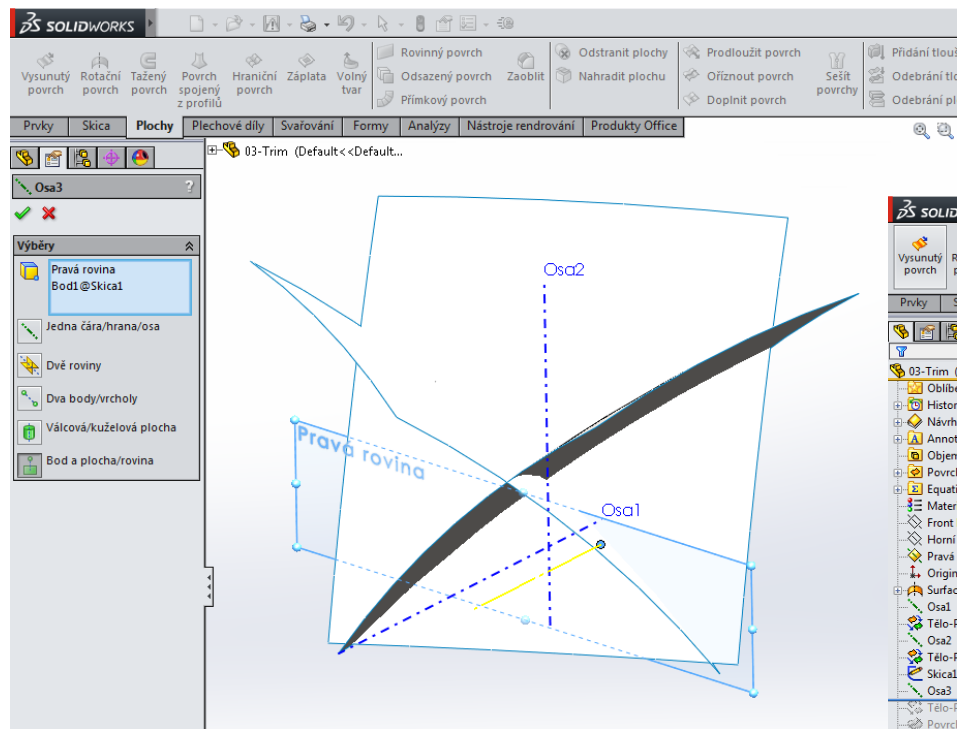


Lekce 3: Skica



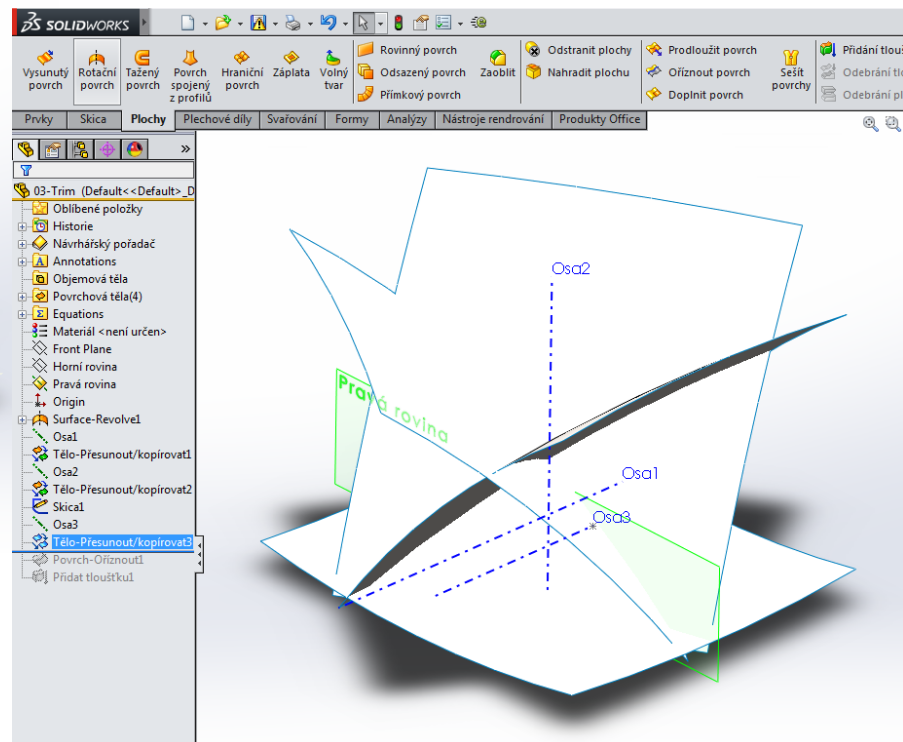
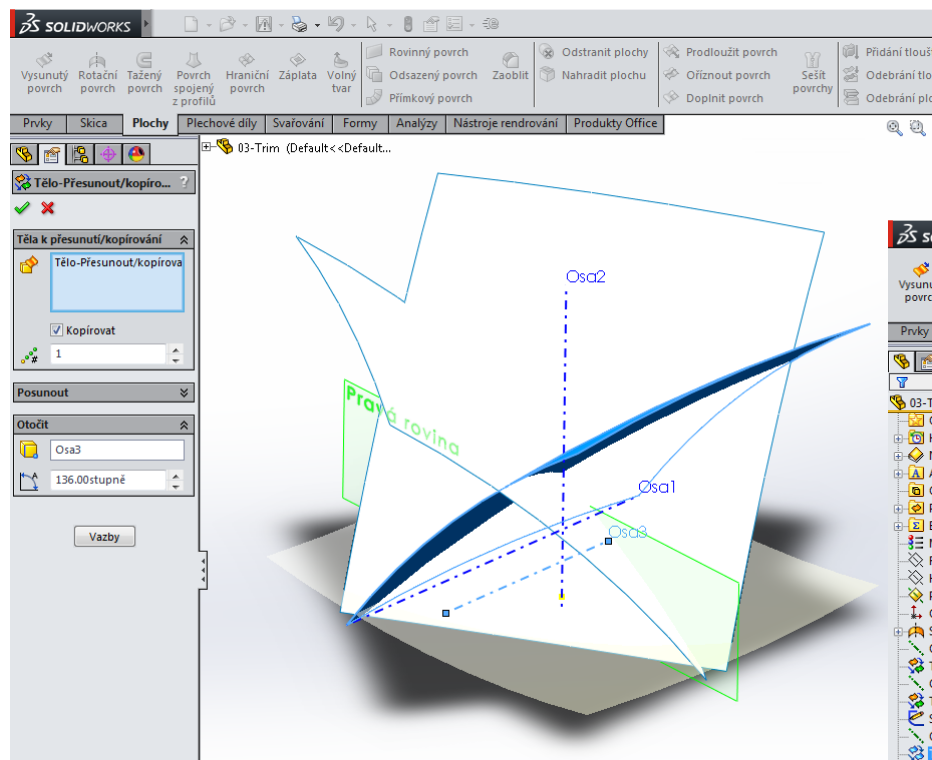
: 03-Trim.SLDPRT

Lekce 3: Osa



: 03-Trim.SLDPRT

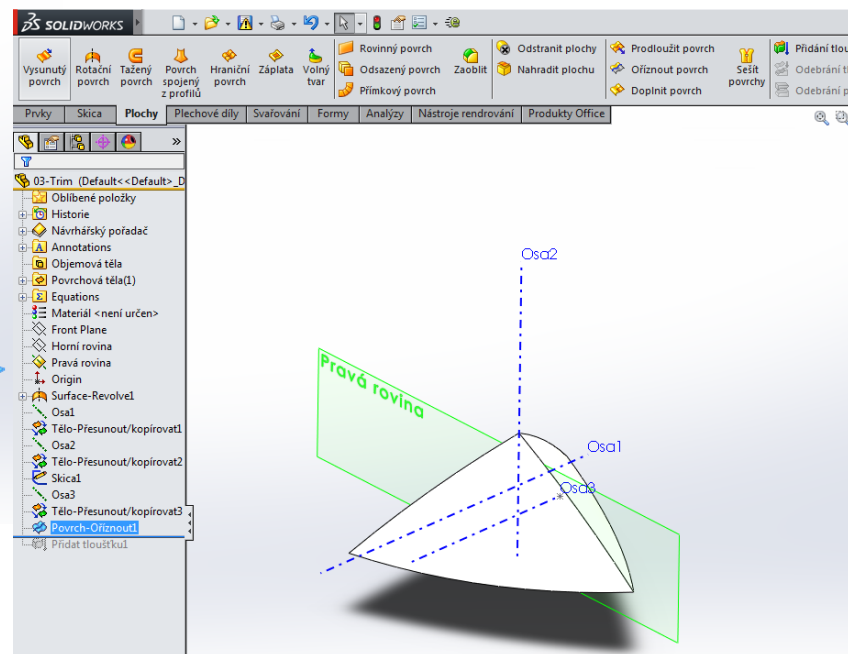
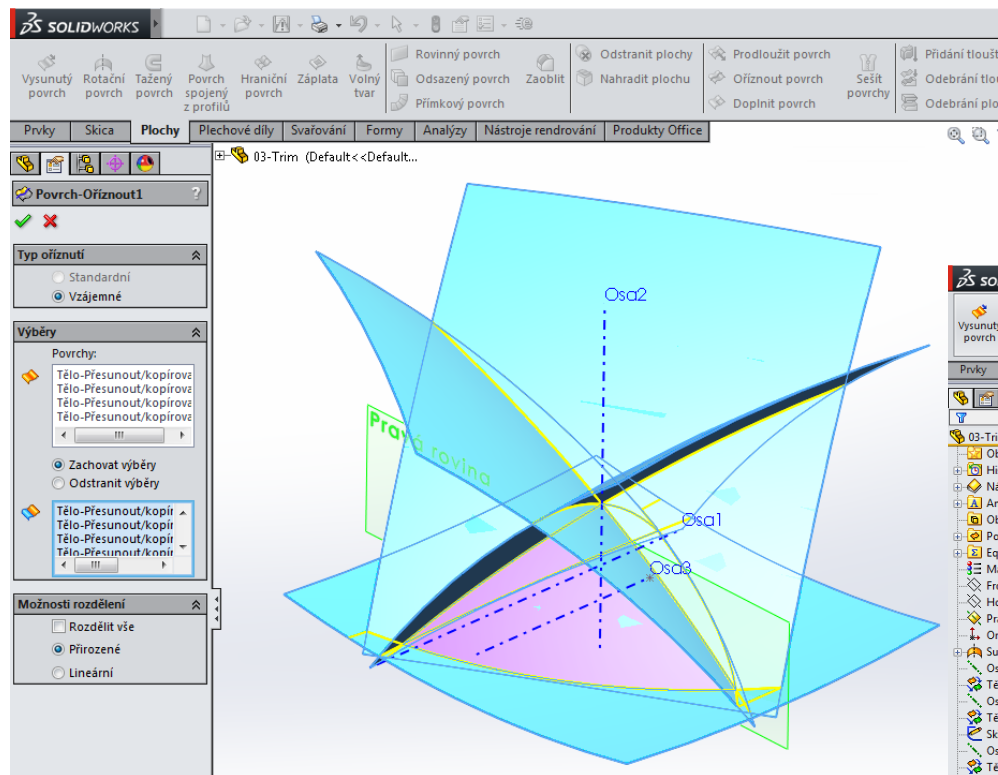
Lekce 3: Přesunout/Kopírovat



: 03-Trim.SLDPRT

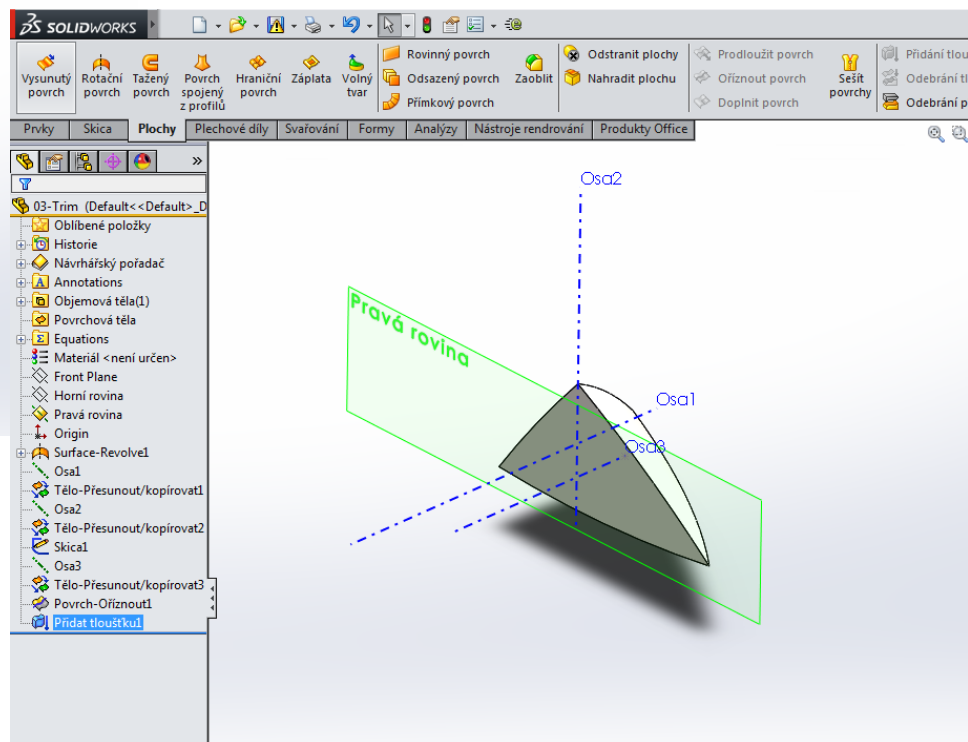
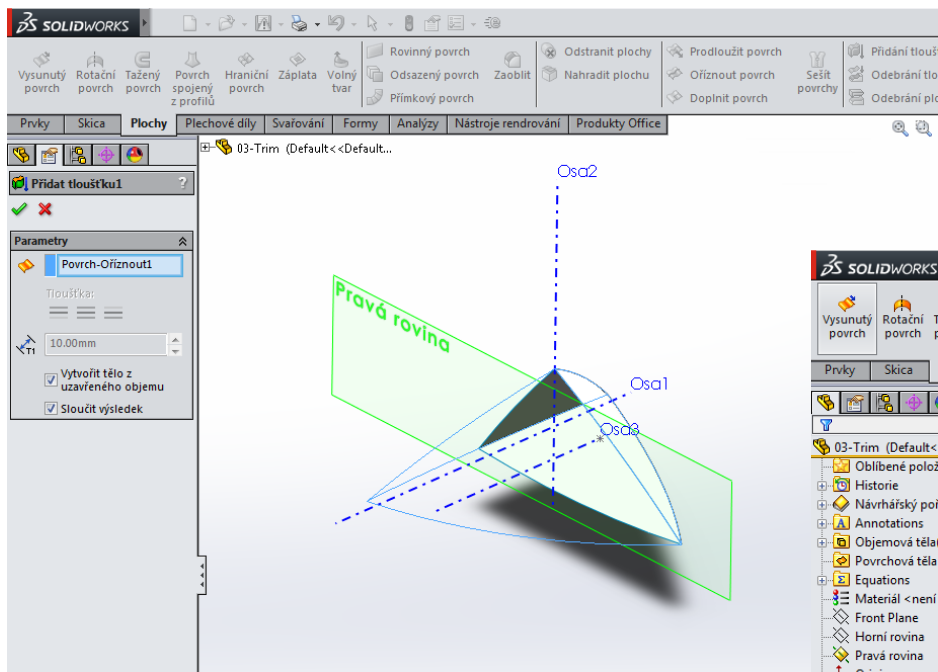


Lekce 3: Oříznout povrch



: 03-Trim.SLDPRT

Lekce 3: Přidání tloušťky



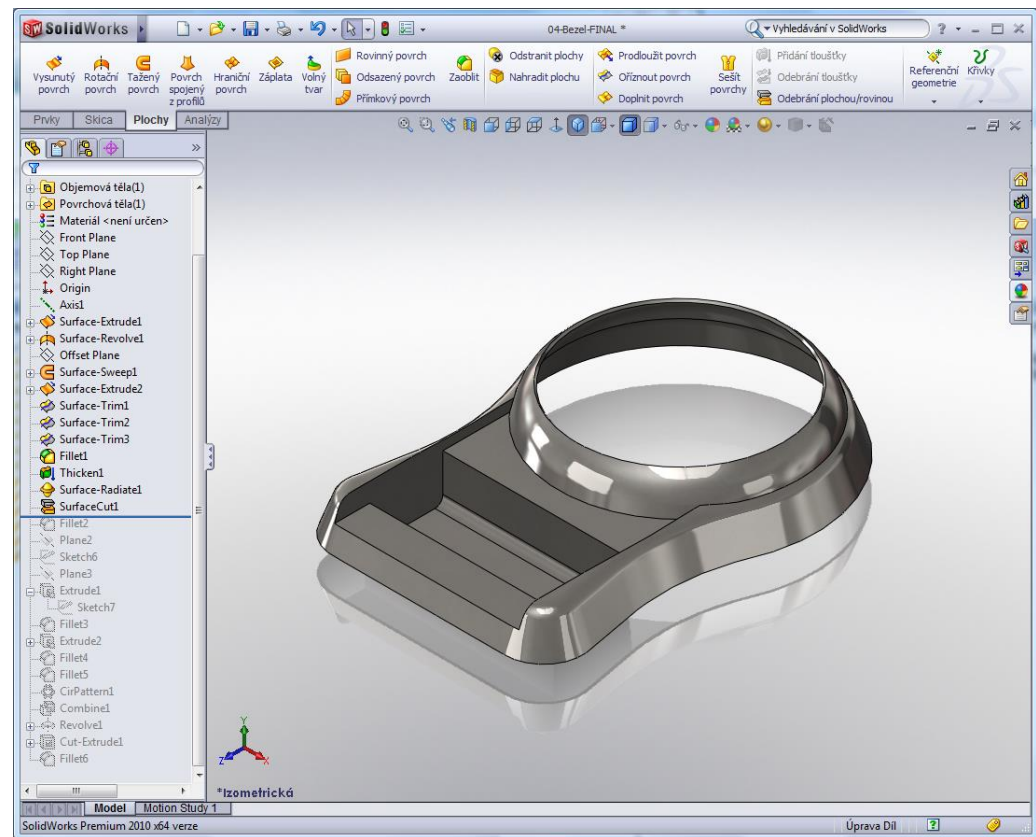
: 03-Trim.SLDPRT



Lekce 4: Vytvoření objemového tělesa - plošné a objemové operace



- Vysunutý povrch
- Rotační povrch
- Tažený povrch
- Oříznout povrch
- Zaoblit
- Povrch rozšířit
- Odebrání plochou/rovinou
- Přidání tloušťky

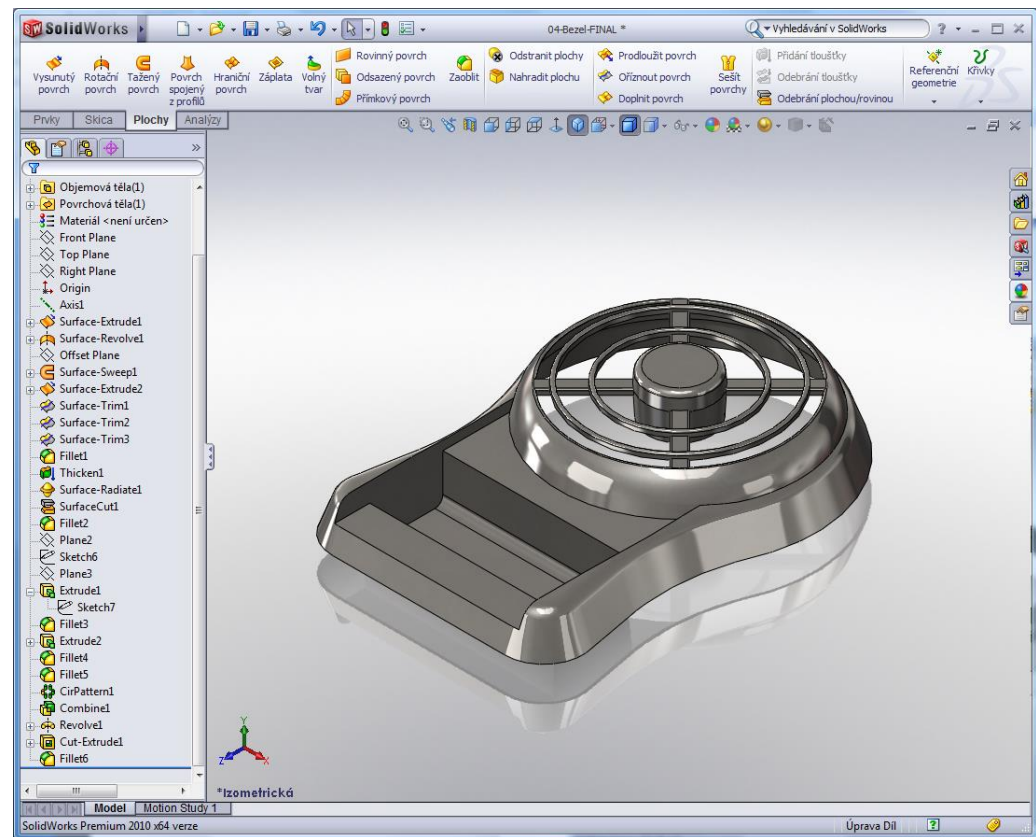


: 04-Bezel.SLDPRT

Lekce 4: Vytvoření objemového tělesa - plošné a objemové operace

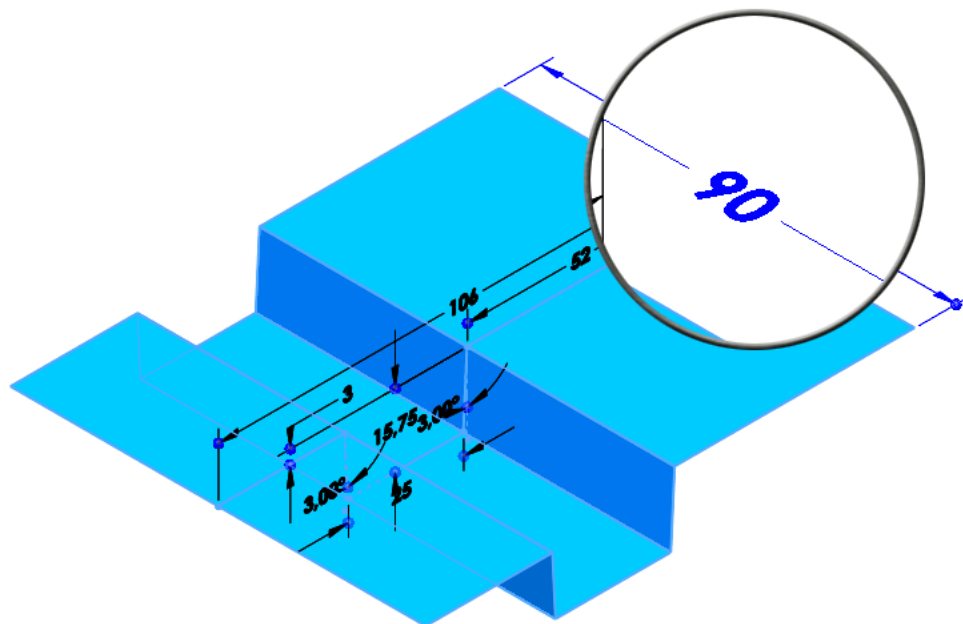
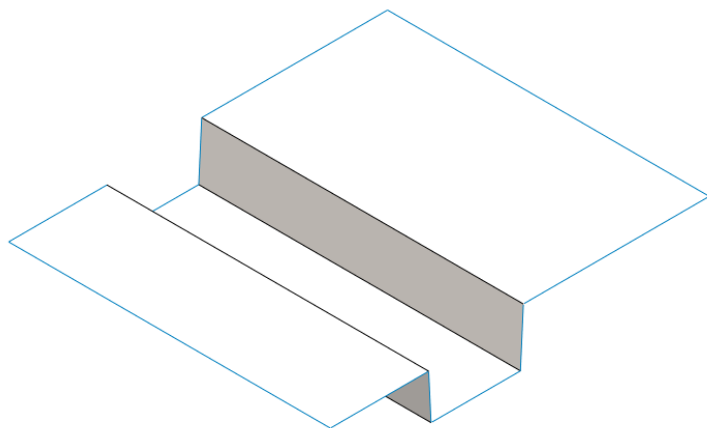
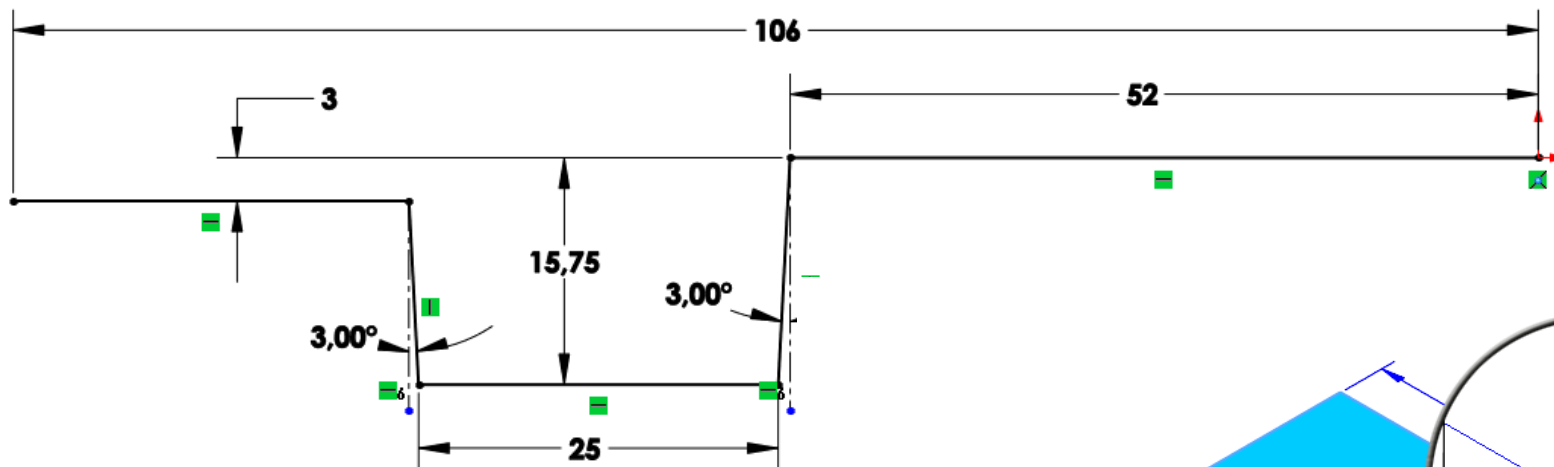


- Zaoblit
- Přidání vysunutím
- Kruhové pole
- Kombinovat
- Přidání rotací
- Odebrání vysunutím



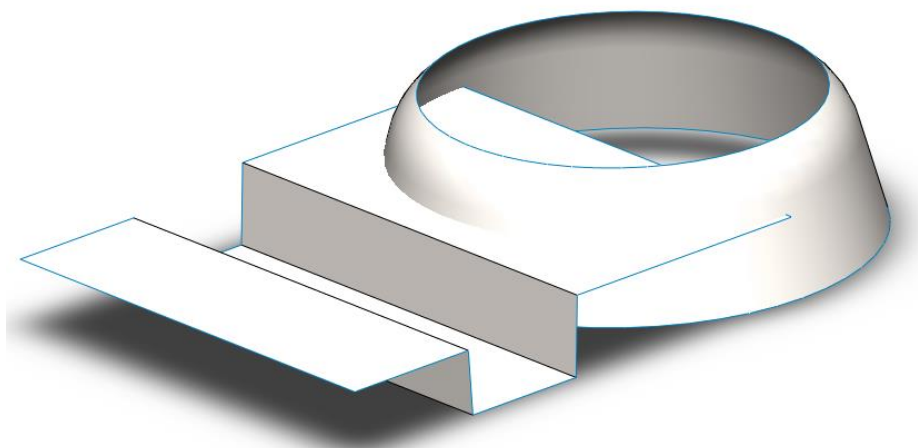
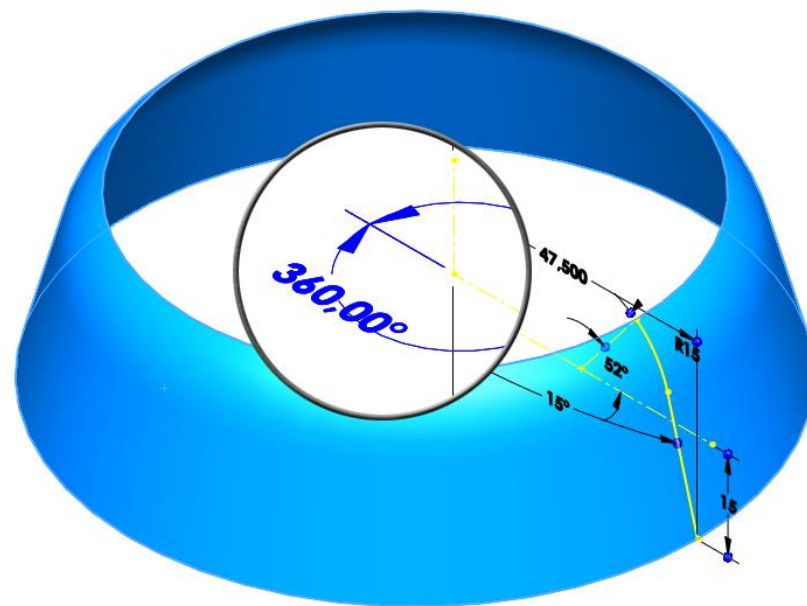
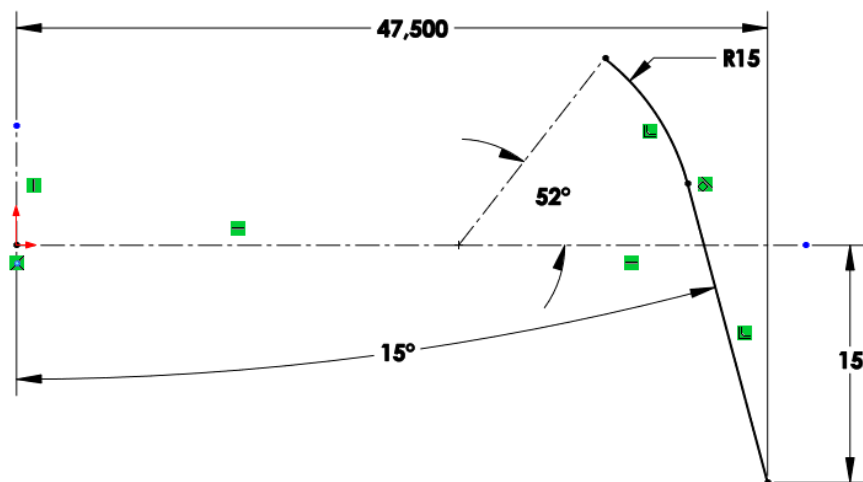
: 04-Bezel.SLDPRT

Lekce 4: Skica, Vysunutý povrch

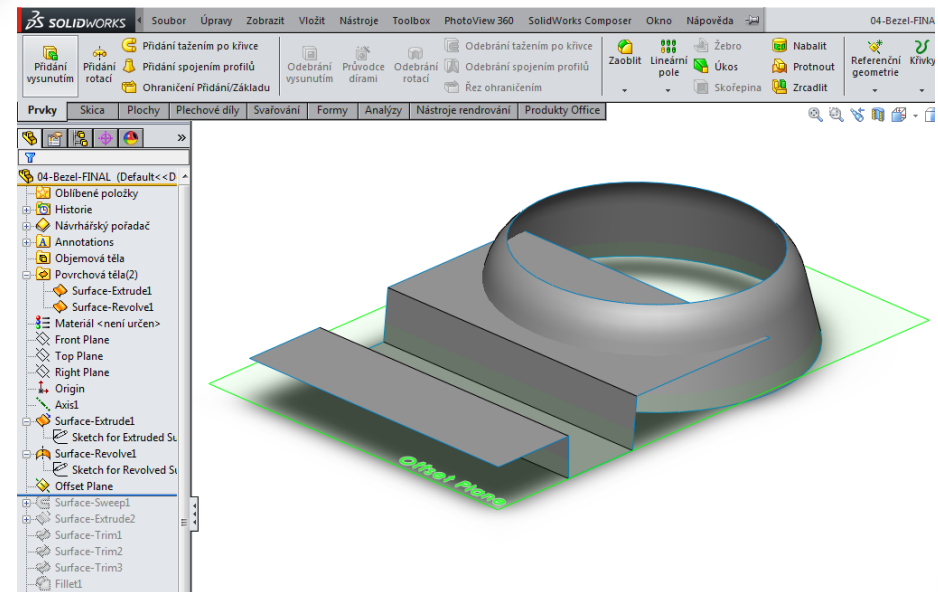
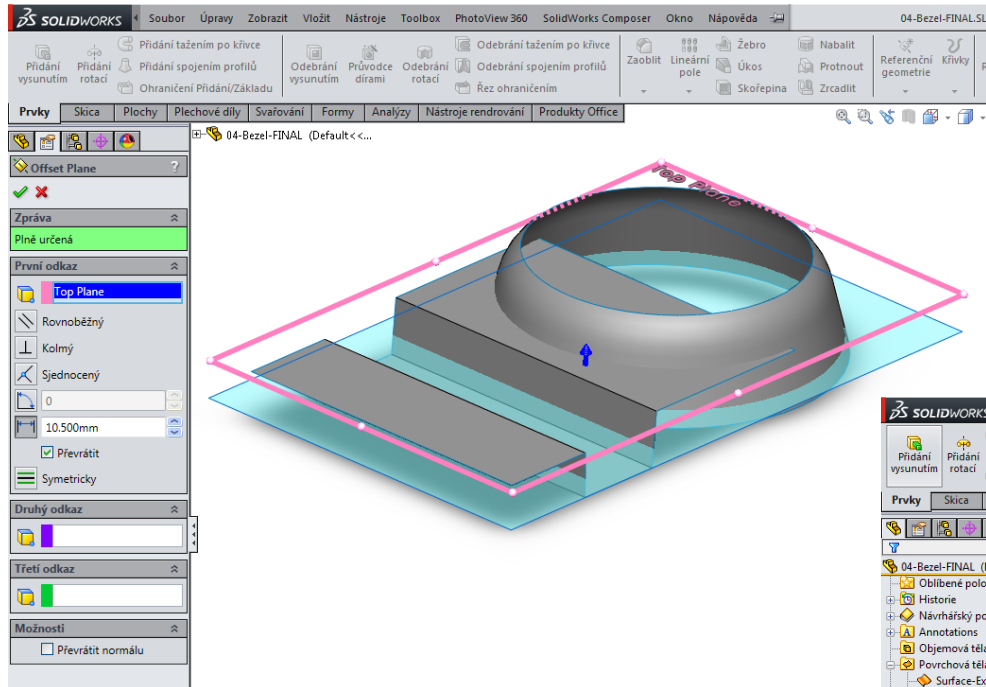


: 04-Bezel.SLDPRT

Lekce 4: Skica, Rotační povrch

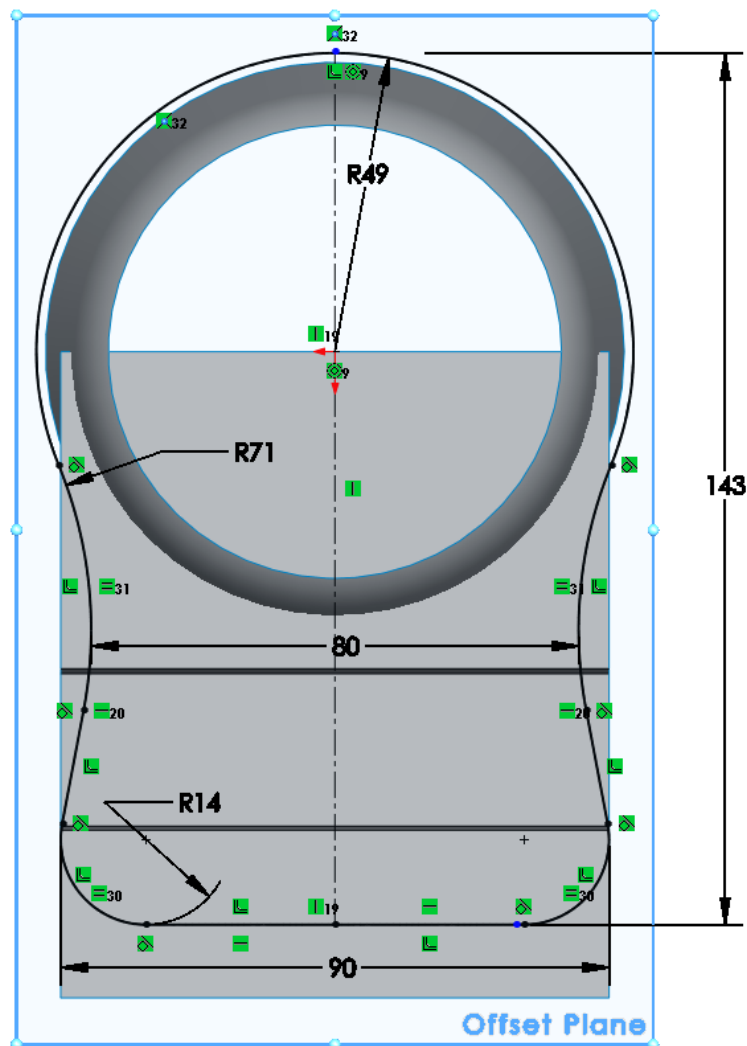


Lekce 4: Rovina



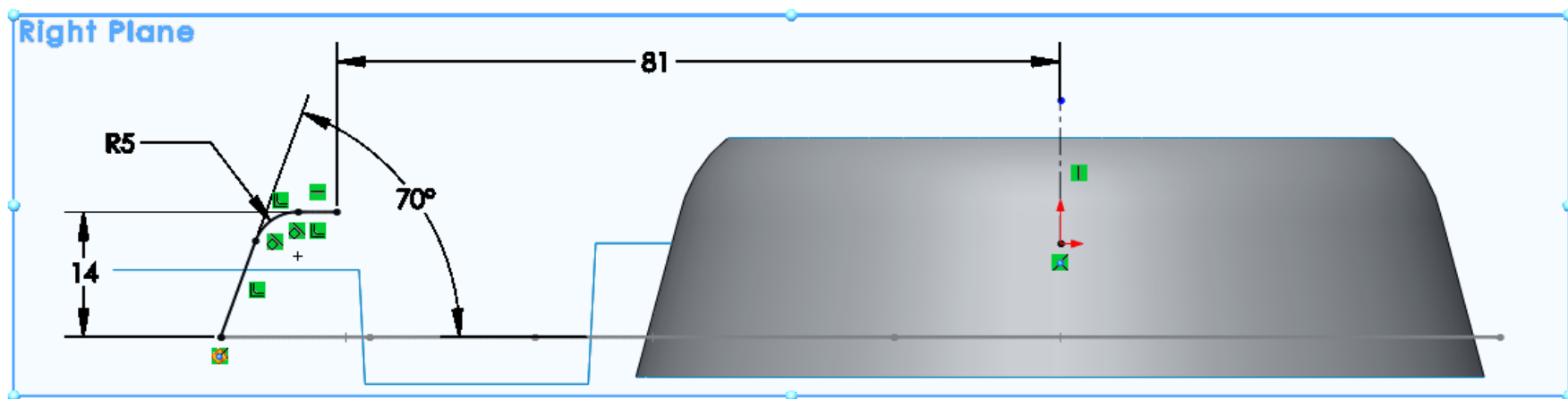
: 04-Bezel.SLDPRT

Lekce 4: Skica trasy (Tažený povrch)



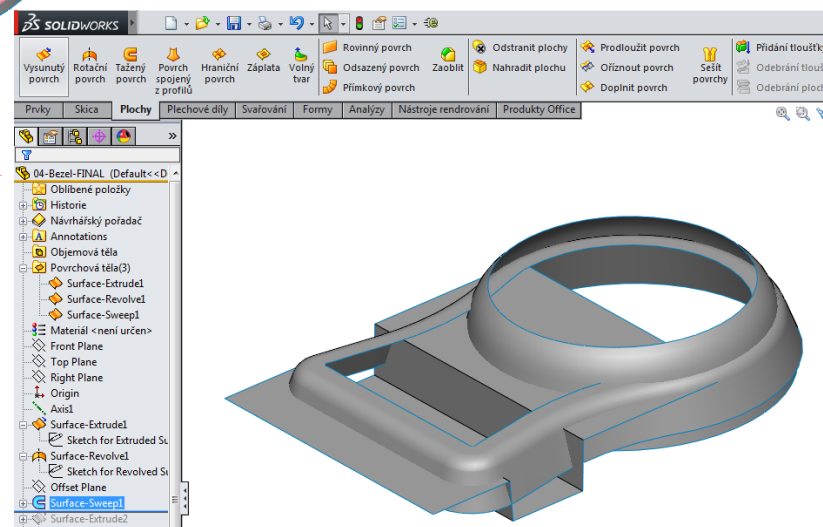
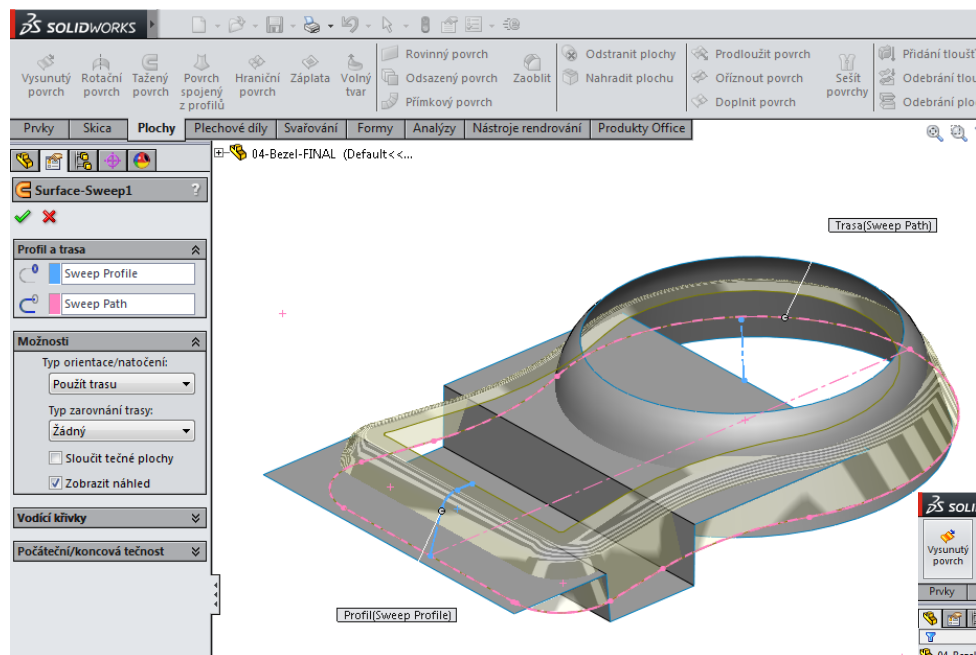
: 04-Bezel.SLDPRT

Lekce 4: Skica profilu (Tažený povrch)



: 04-Bezel.SLDPRT

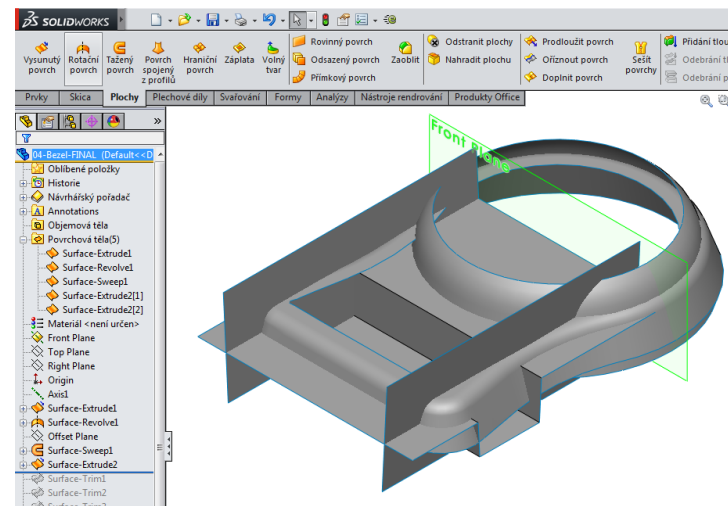
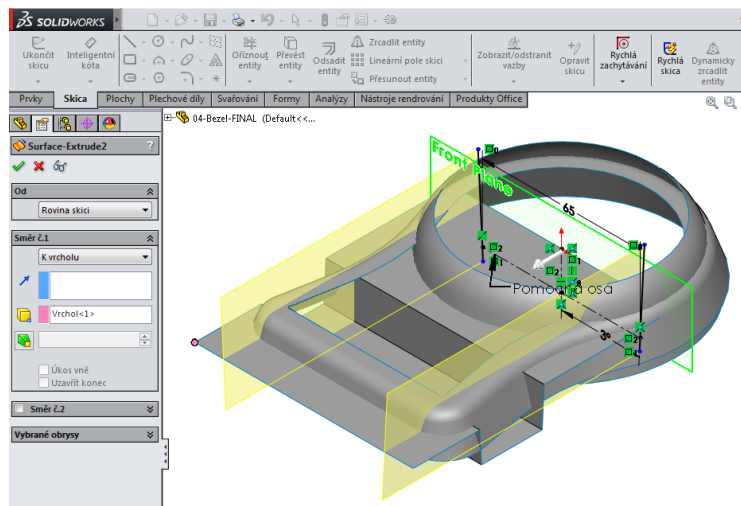
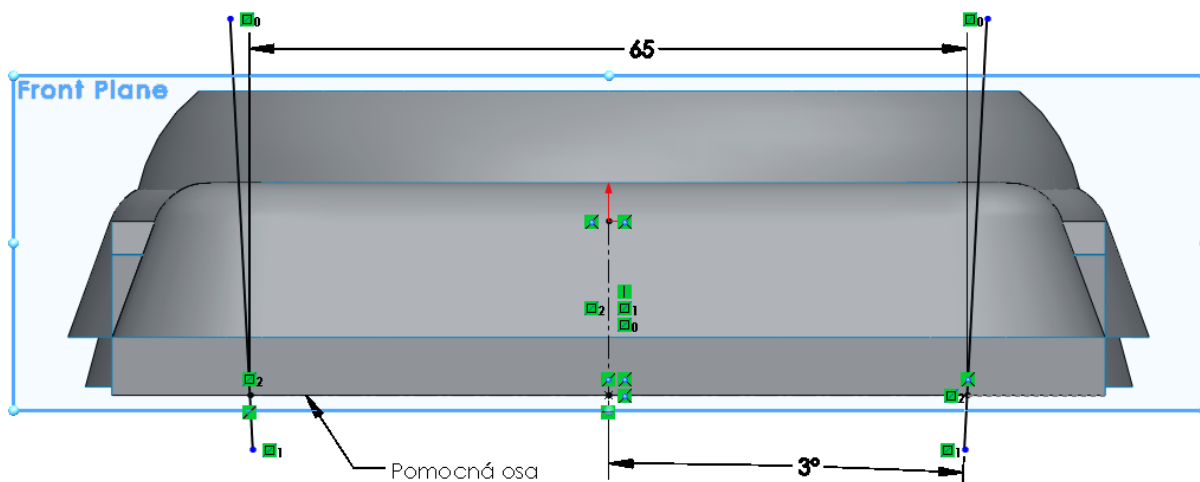
Lekce 4: Tažený povrch



: 04-Bezel.SLDPRT



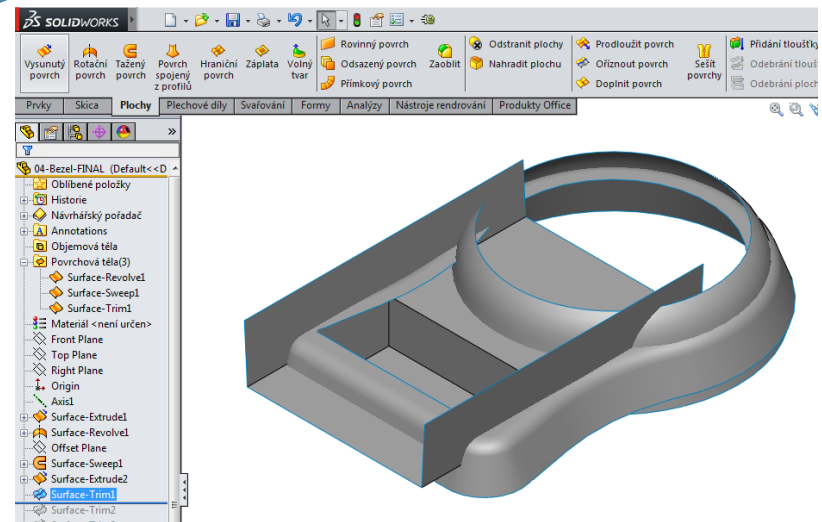
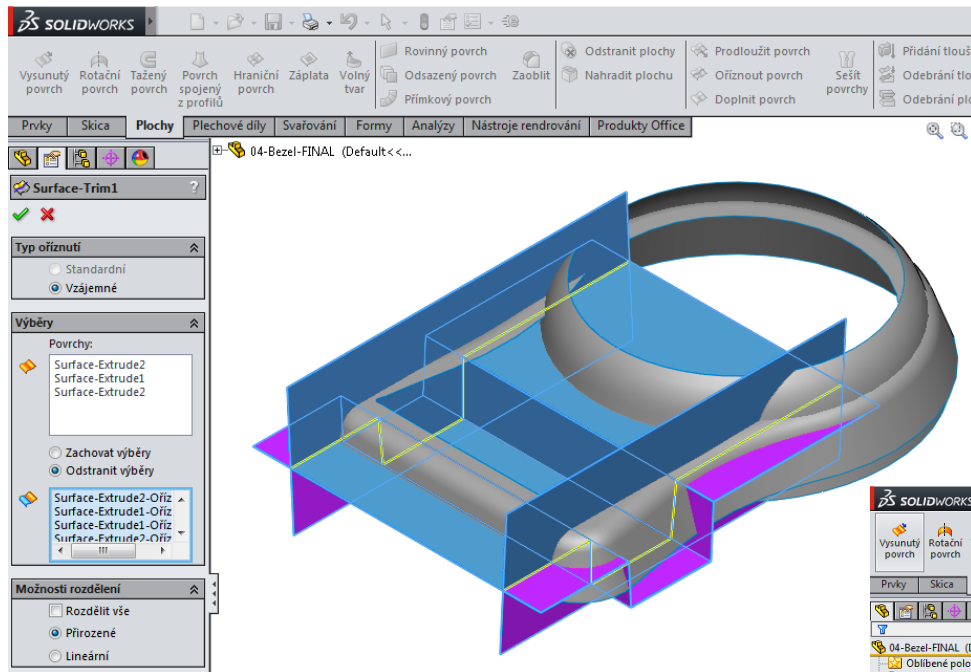
Lekce 4: Skica, Vysunutý povrch



: 04-Bezel.SLDPR

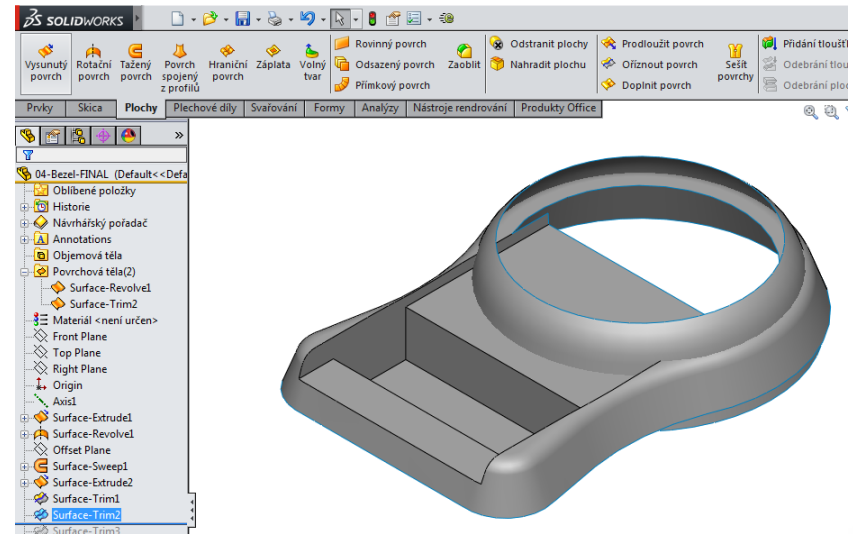
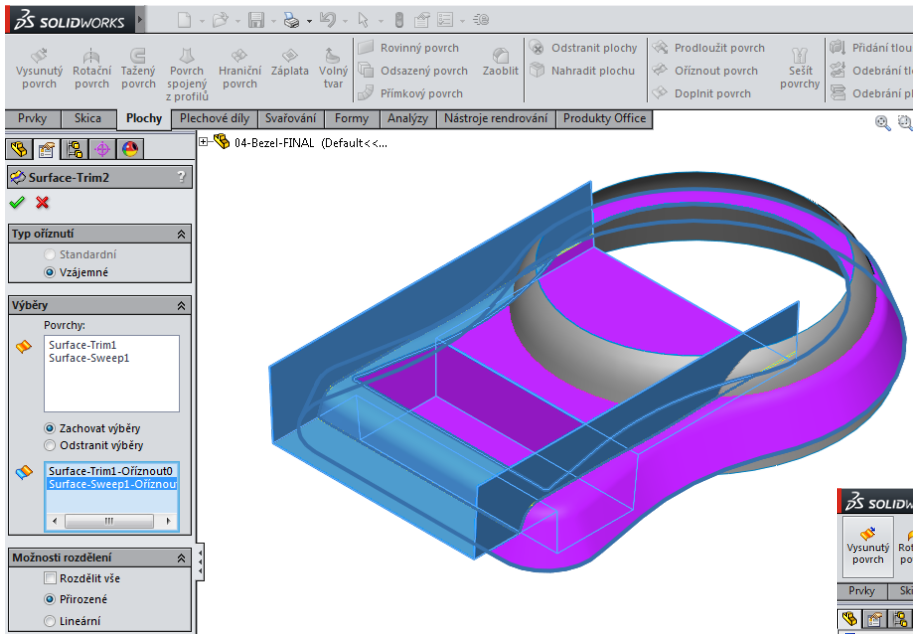


Lekce 4: Oříznout povrch



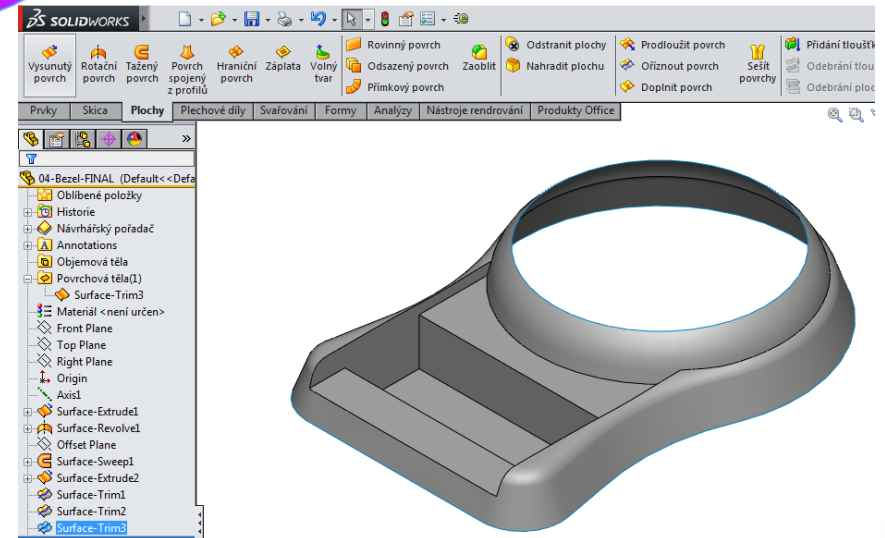
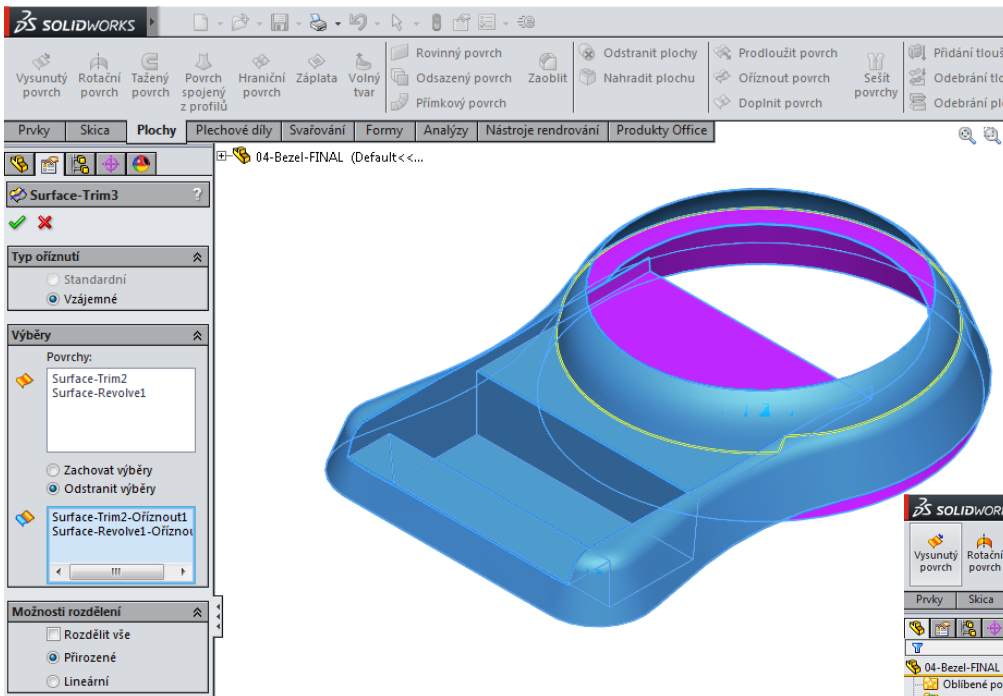
: 04-Bezel.SLDPRT

Lekce 4: Oříznout povrch



: 04-Bezel.SLDPRT

Lekce 4: Oříznout povrch



: 04-Bezel.SLDPRT



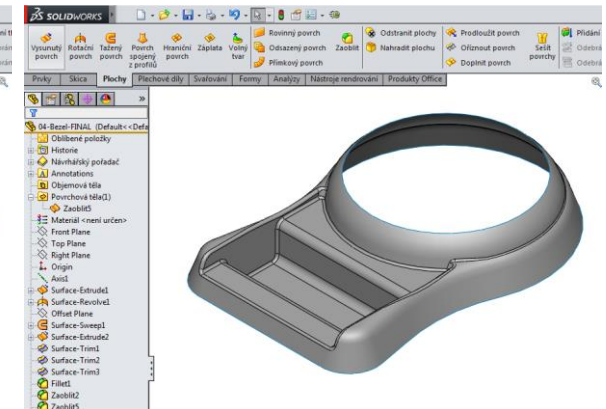
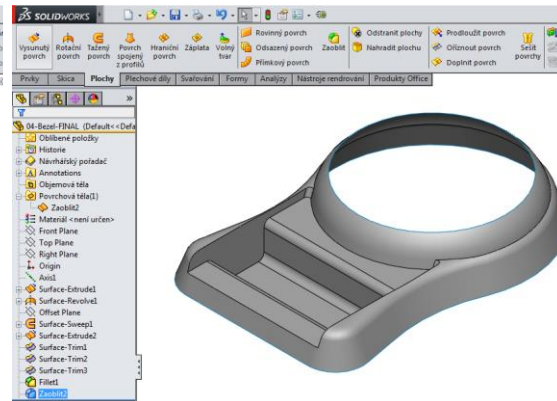
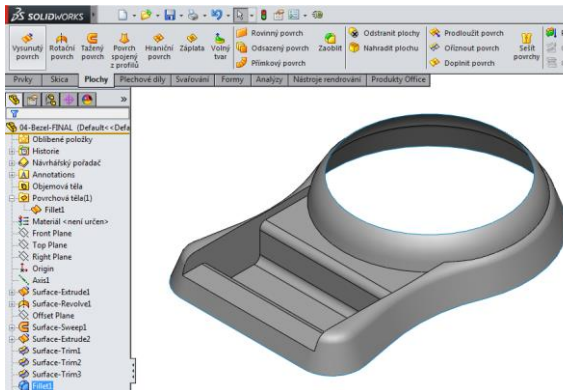
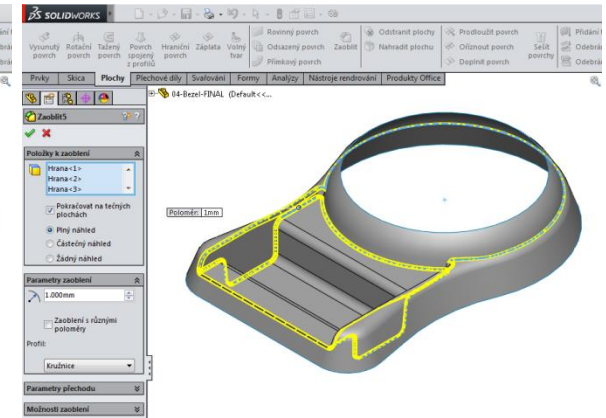
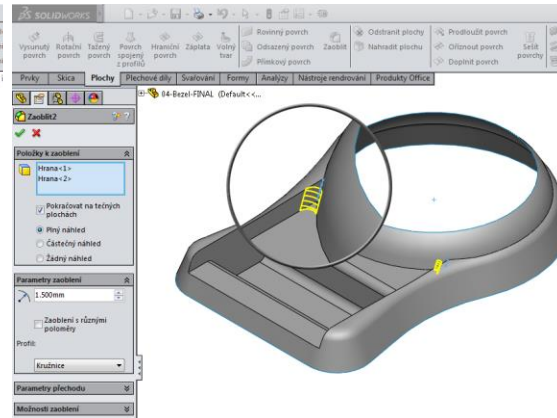
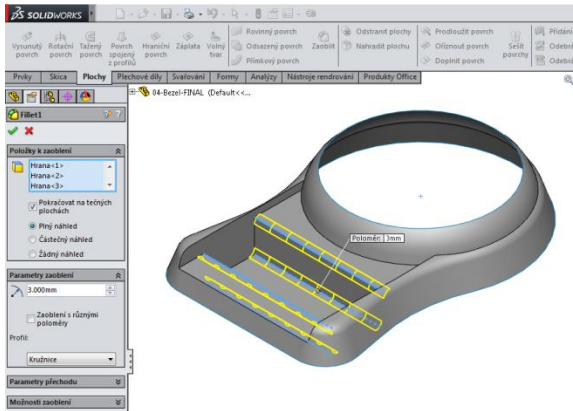
Lekce 4: Zaoblit (Nelze použít FiletExpert)



R = 3mm

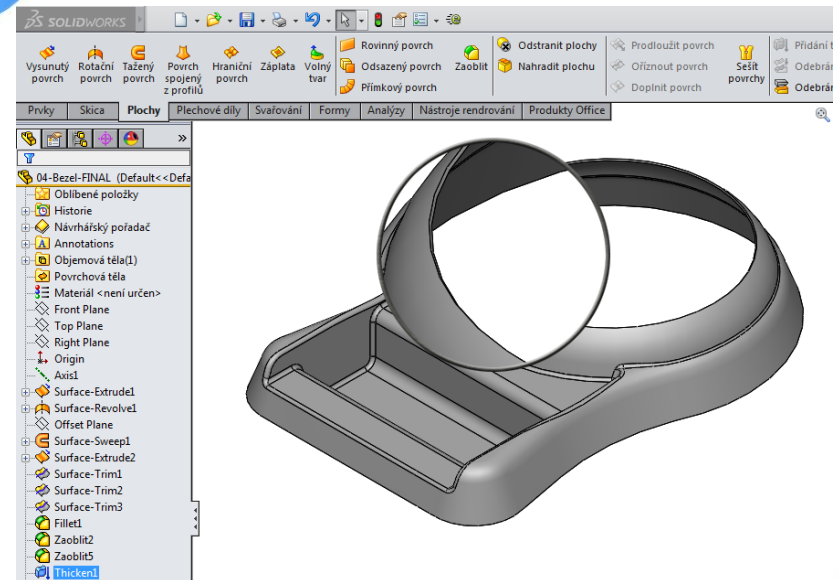
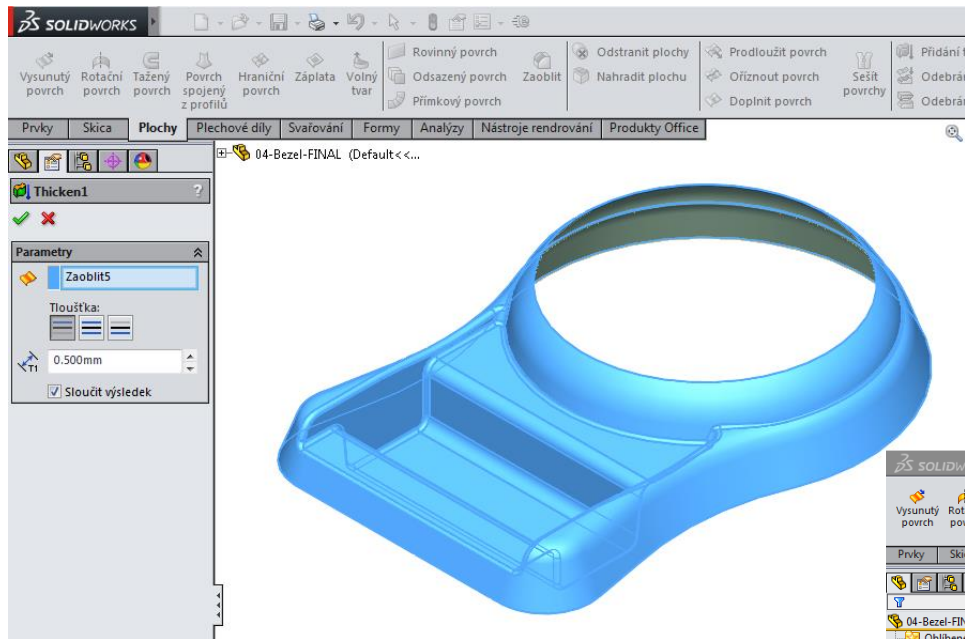
R = 1.5mm

R = 1mm



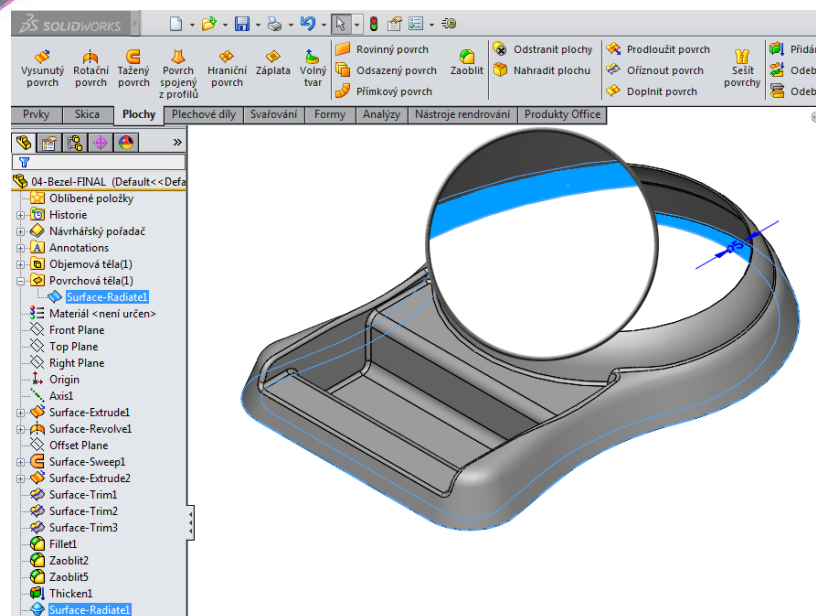
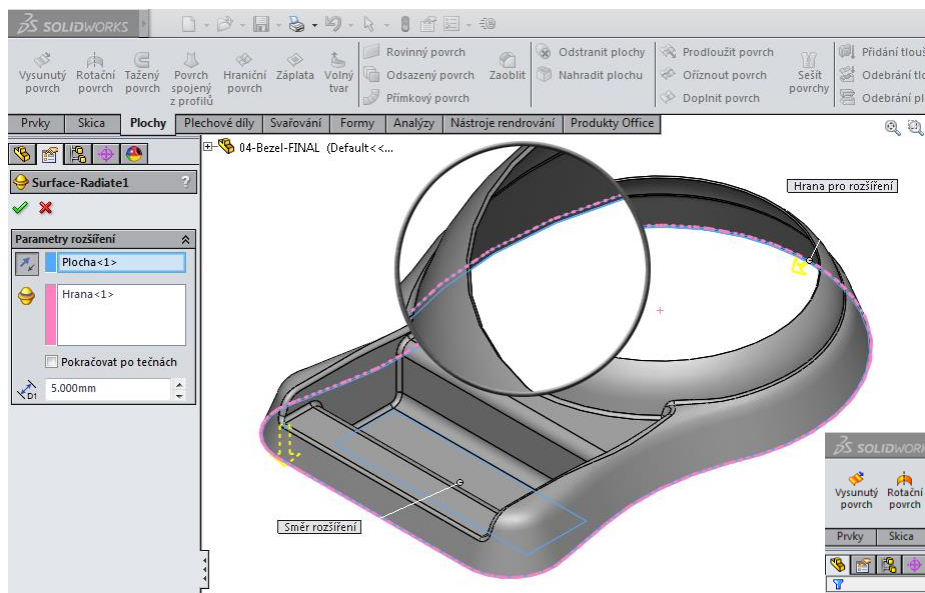
: 04-Bezel.SLDPRT

Lekce 4: Přidání tloušťky



: 04-Bezel.SLDPRT

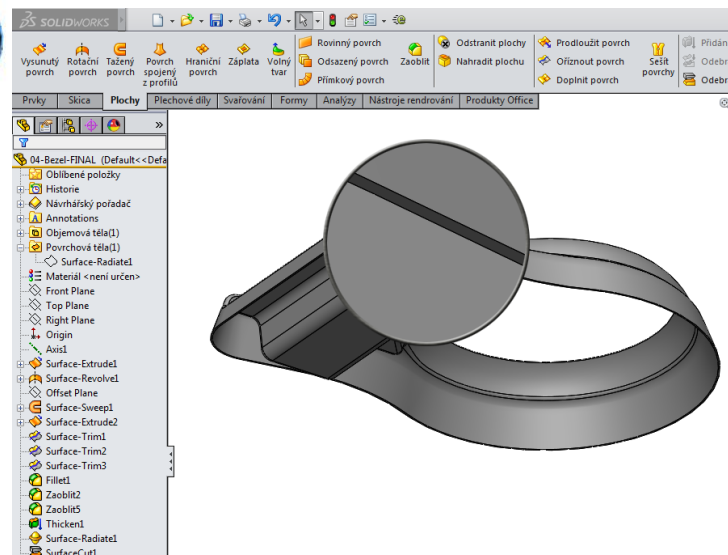
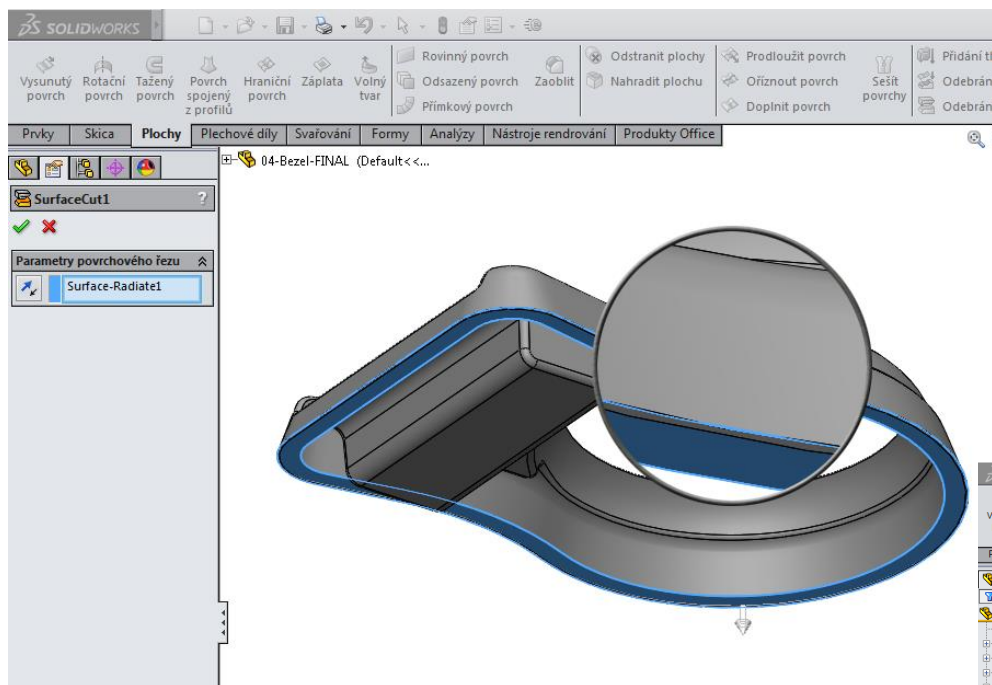
Lekce 4: Rozšířit povrch



: 04-Bezel.SLDPRT

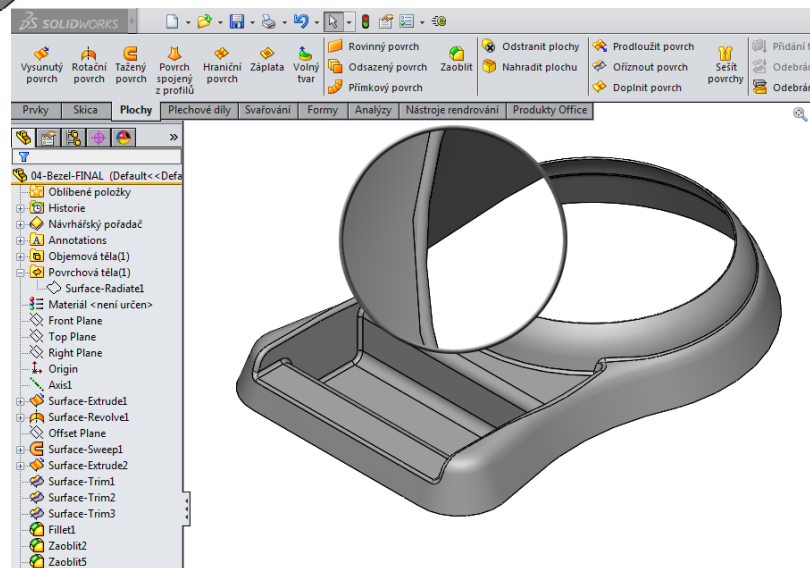
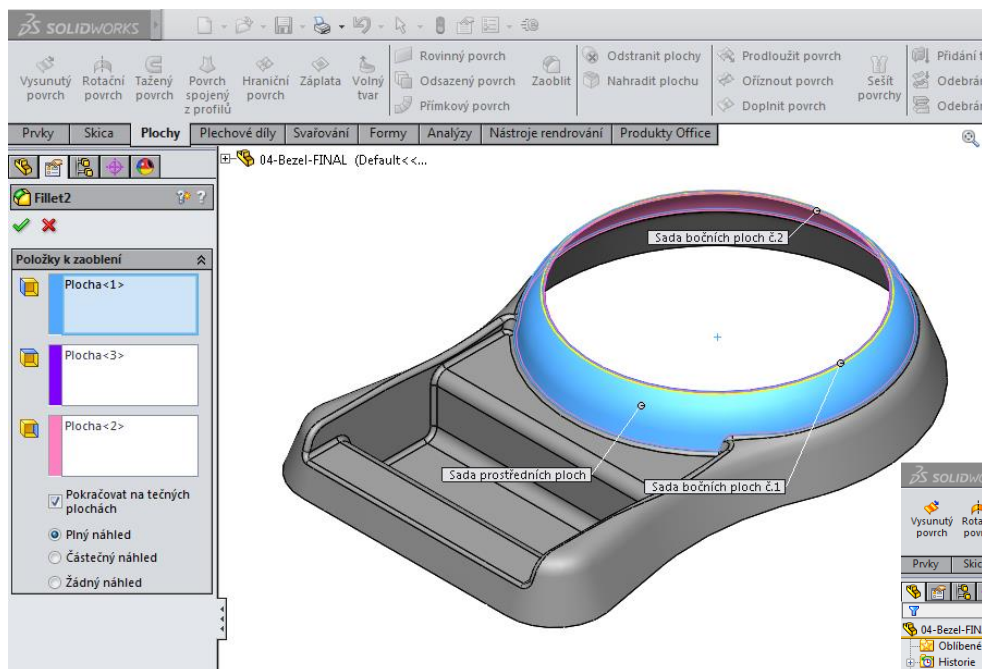


Lekce 4: Odebrání plochou



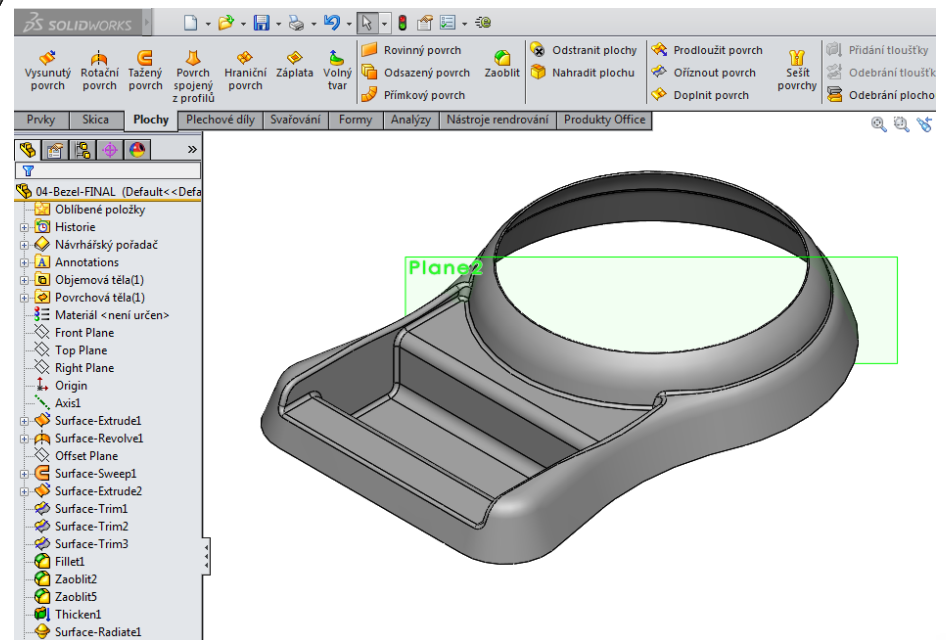
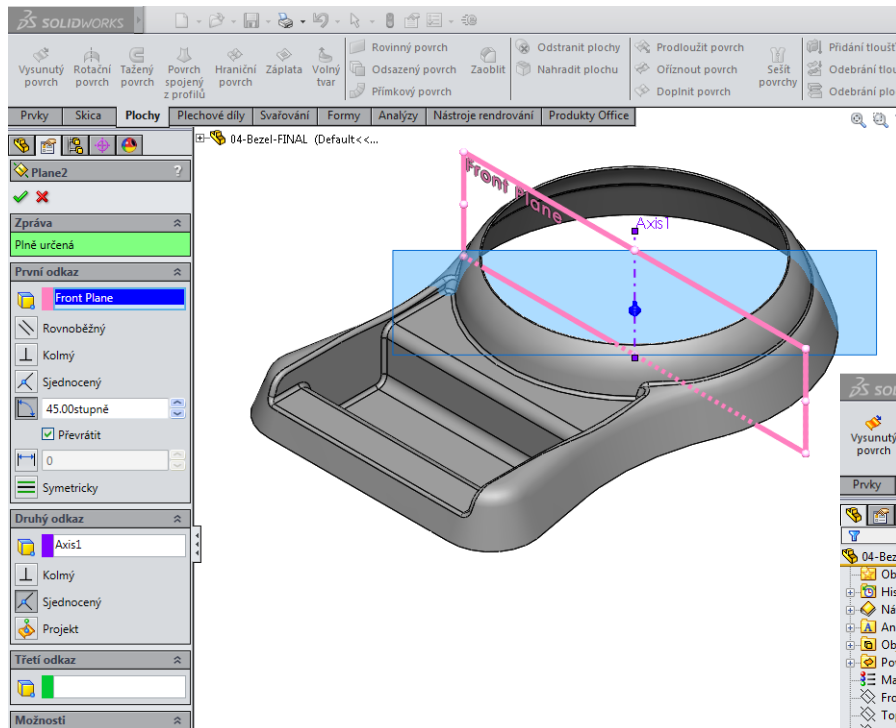
: 04-Bezel.SLDPRT

Lekce 4: Zaoblit (Tečné zaoblení)



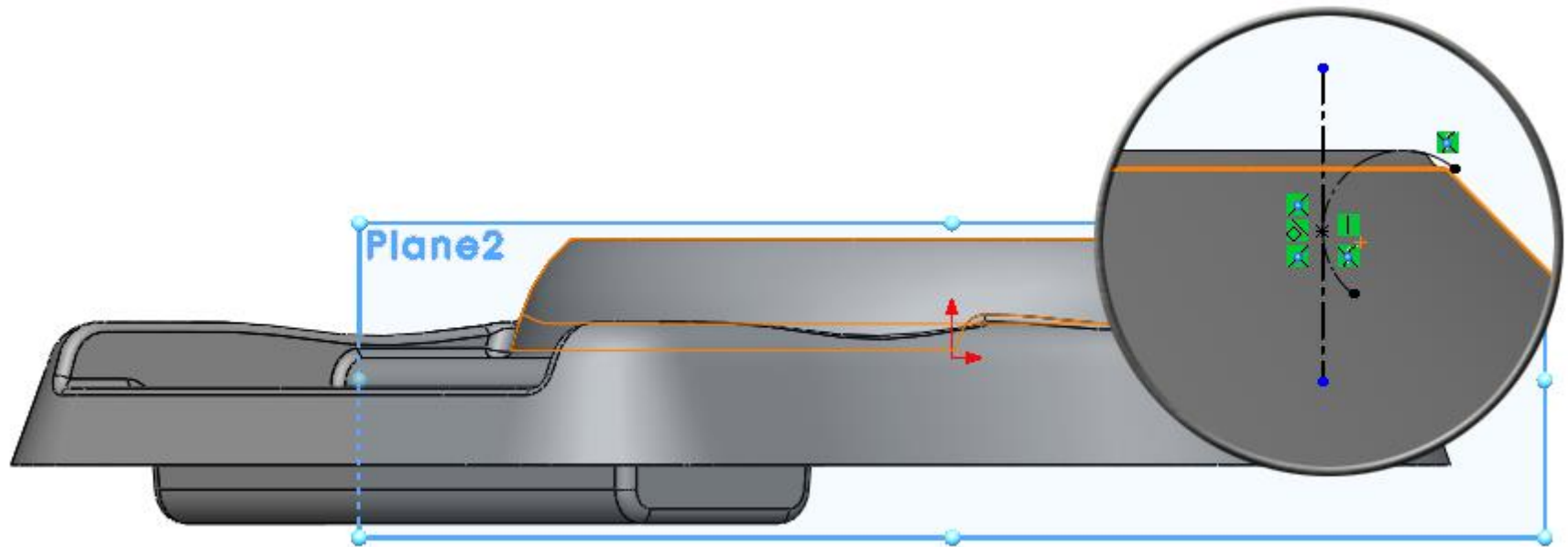
: 04-Bezel.SLDPRT

Lekce 4: Rovina

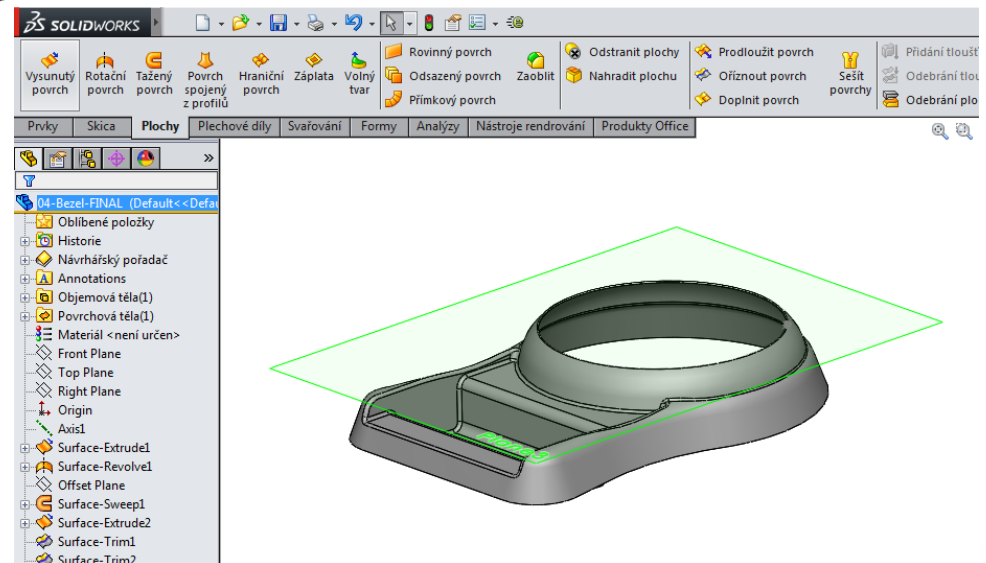
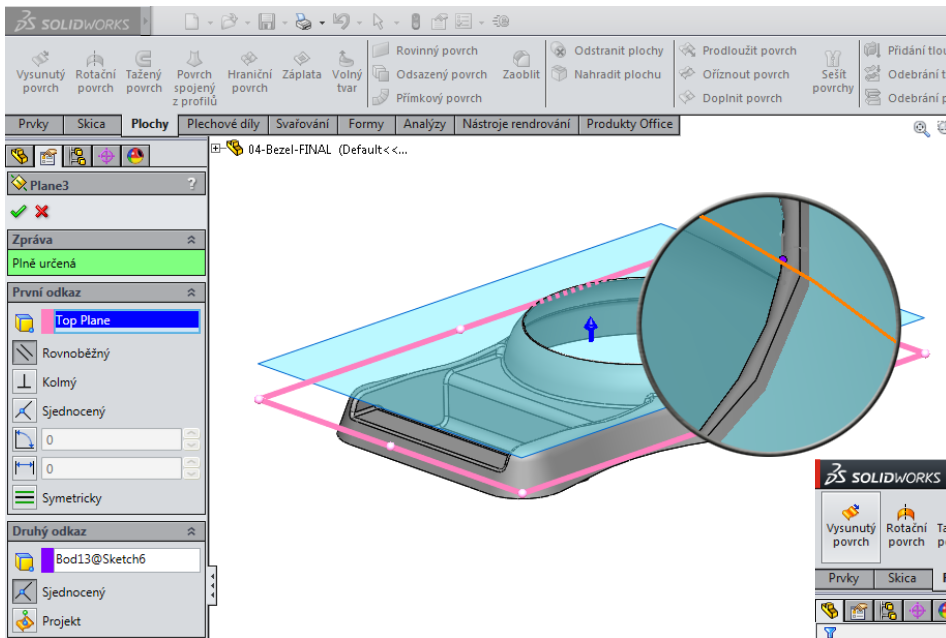


: 04-Bezel.SLDPRT

Lekce 4: Skica

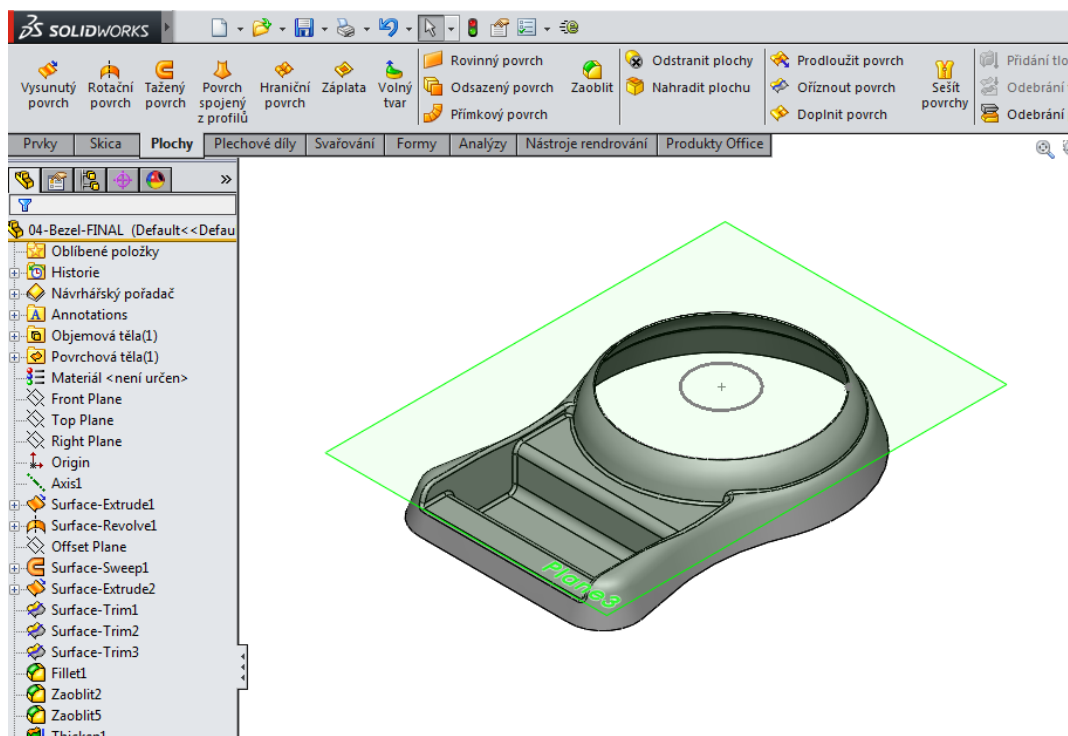
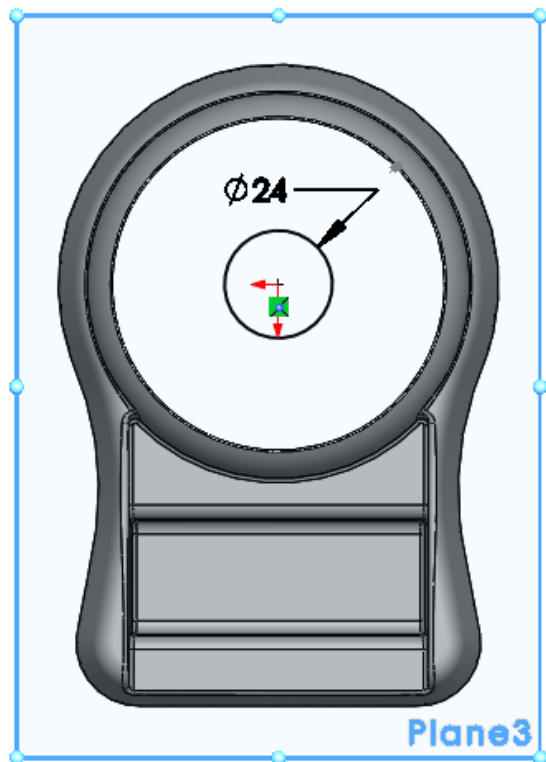


Lekce 4: Rovina



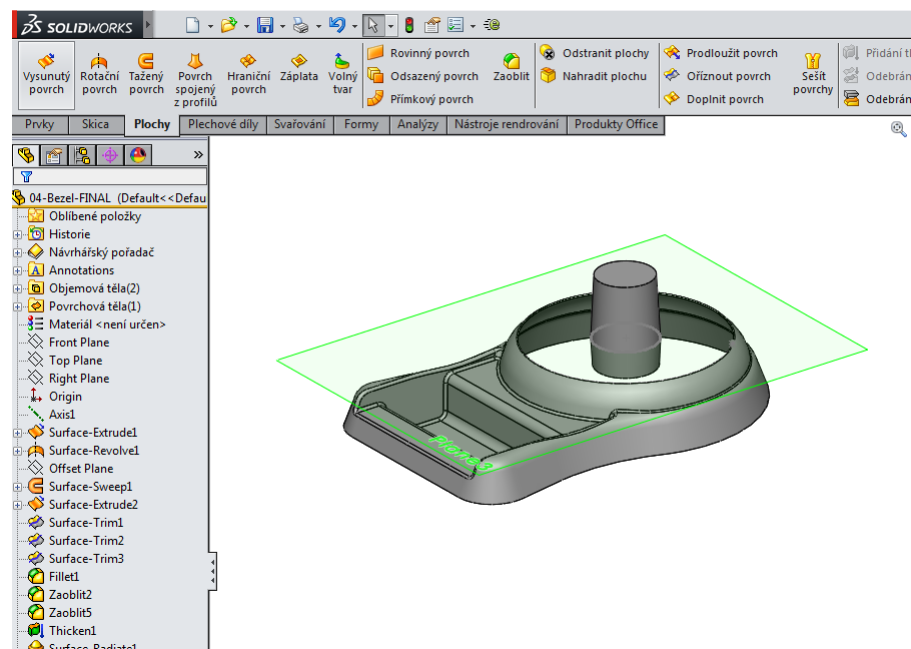
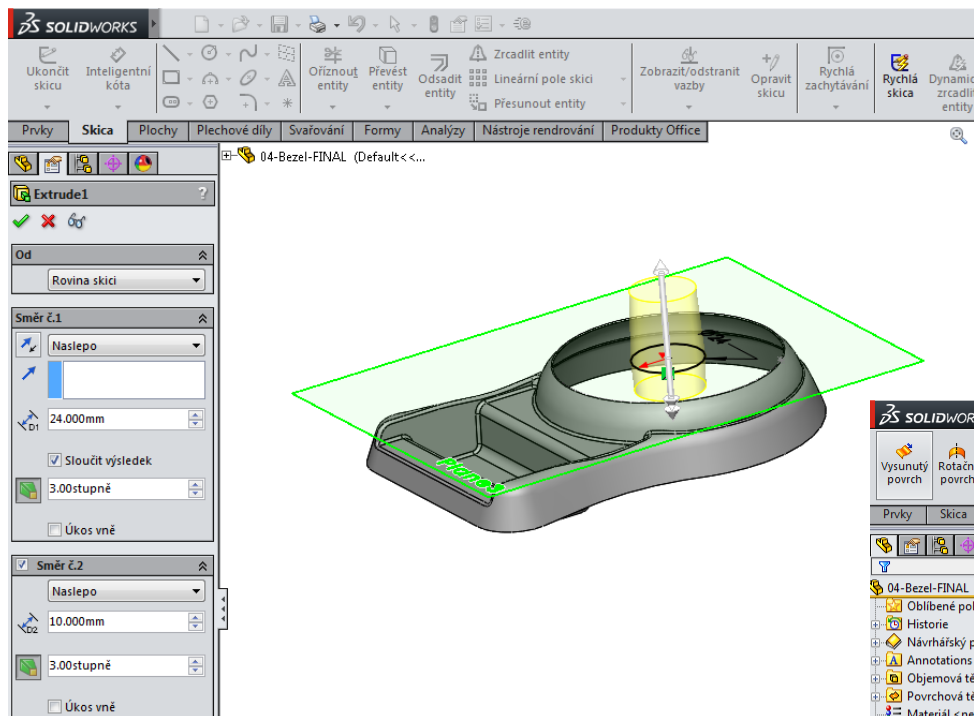
: 04-Bezel.SLDPRT

Lekce 4: Skica



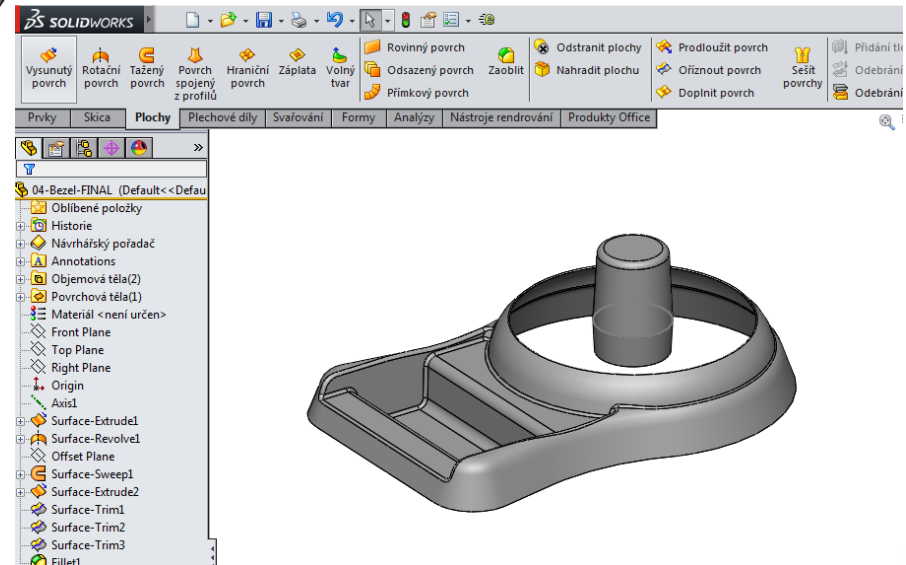
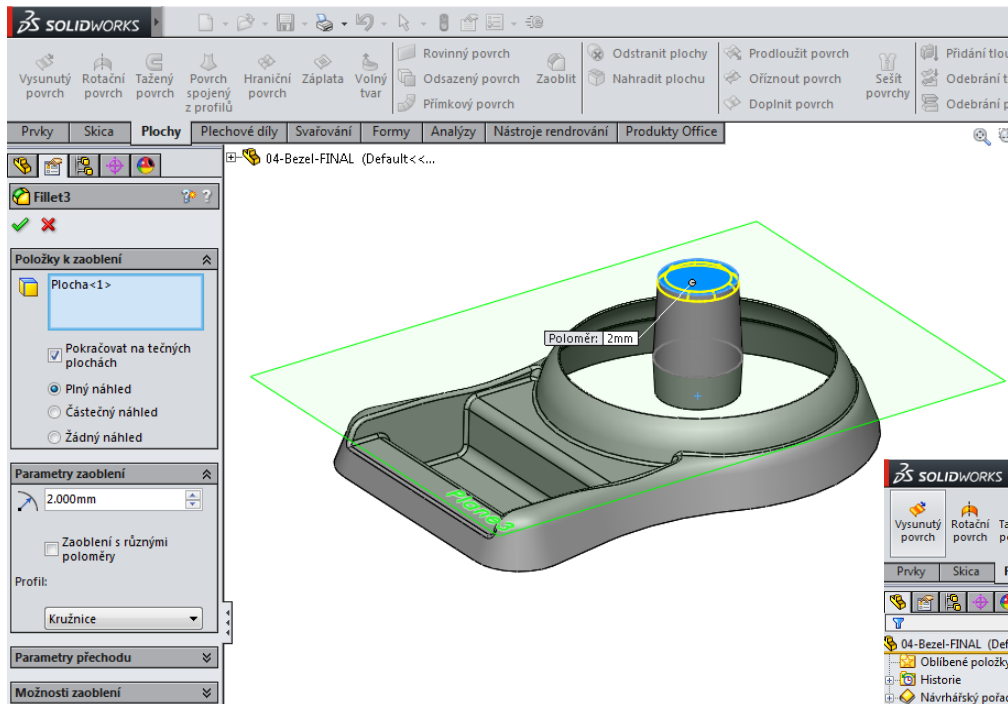
: 04-Bezel.SLDPRT

Lekce 4: Přidání vysunutím



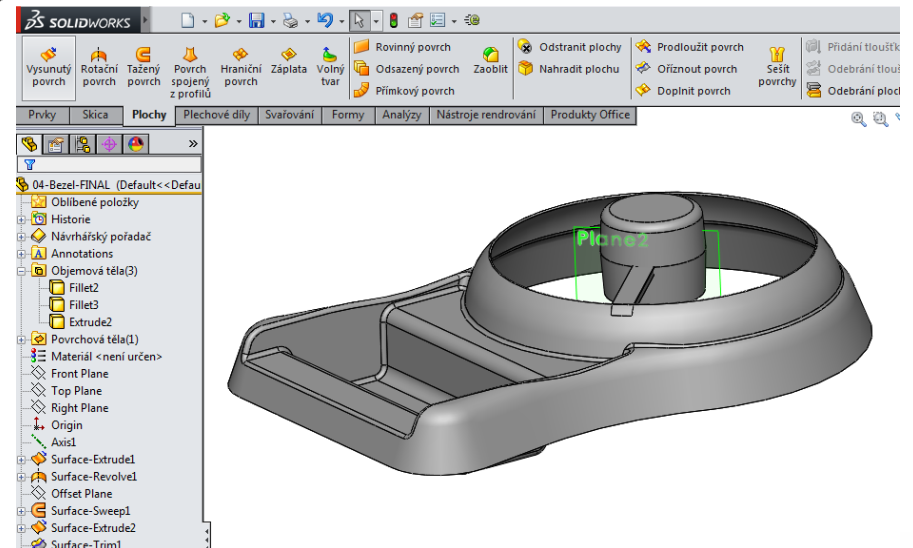
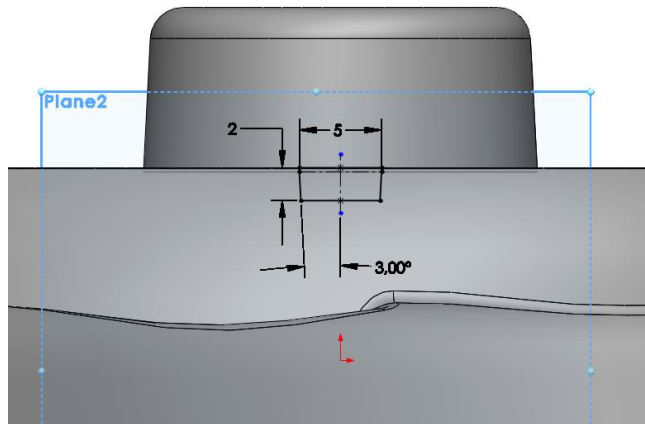
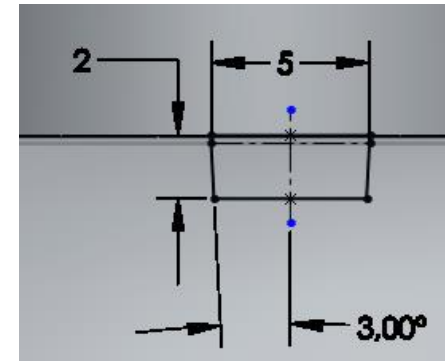
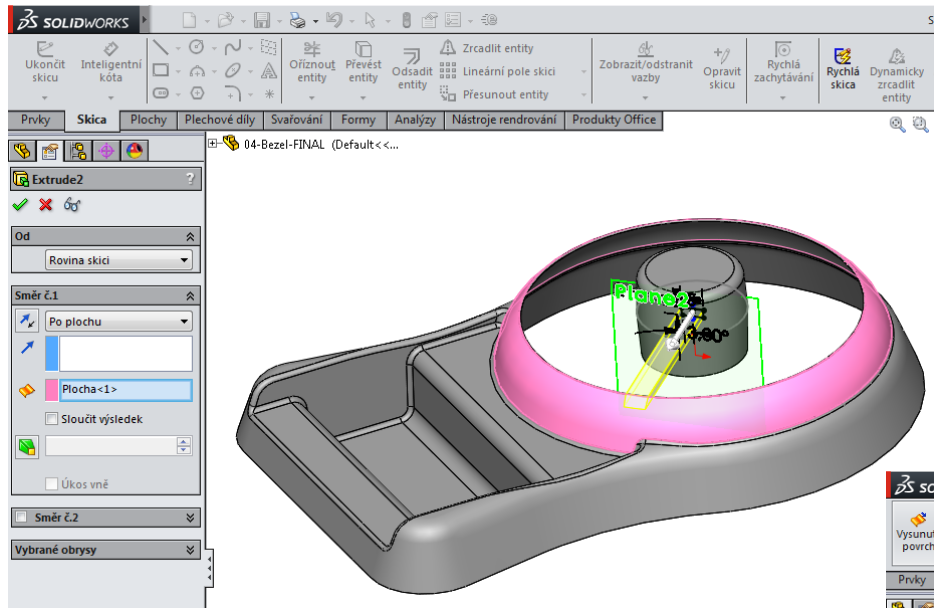
: 04-Bezel.SLDPRT

Lekce 4: Zaoblit



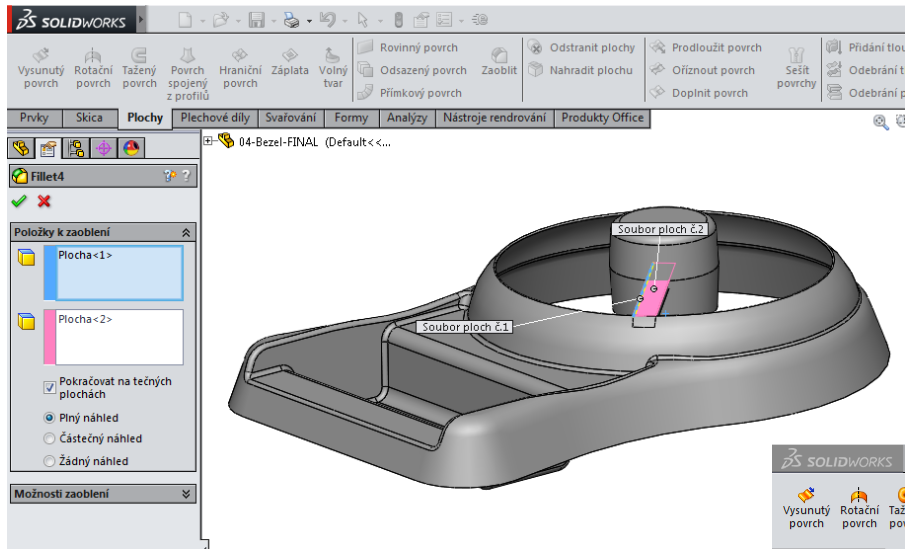
: 04-Bezel.SLDPRT

Lekce 4: Skica, Přidání vysunutím

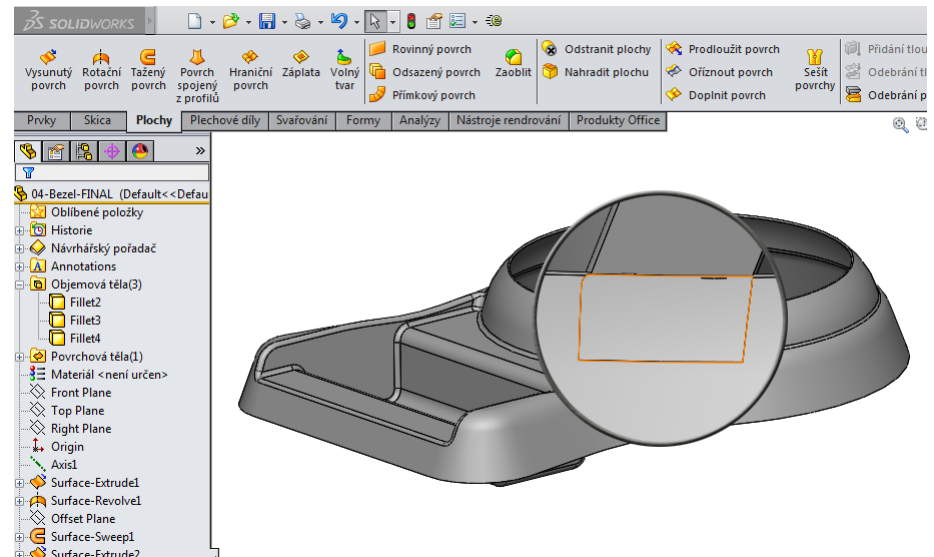


: 04-Bezel.SLDPRT

Lekce 4: Zaoblit

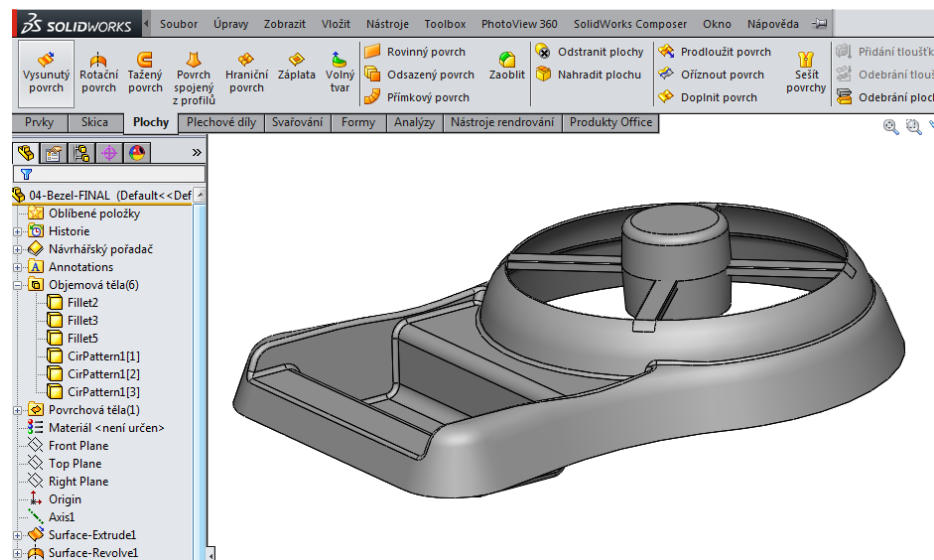
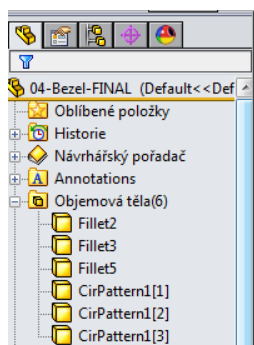
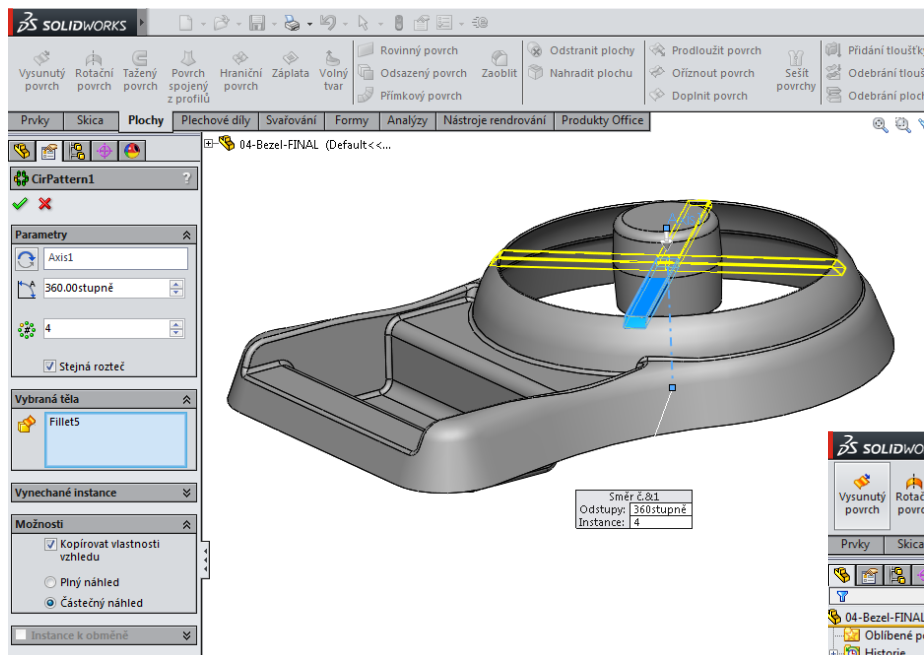


Aplikovat zaoblení i na druhou hranu žebra



: 04-Bezel.SLDPRJT

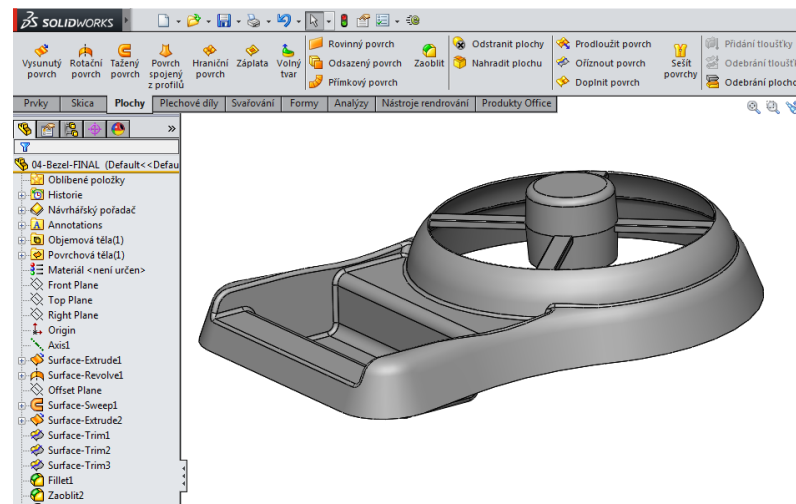
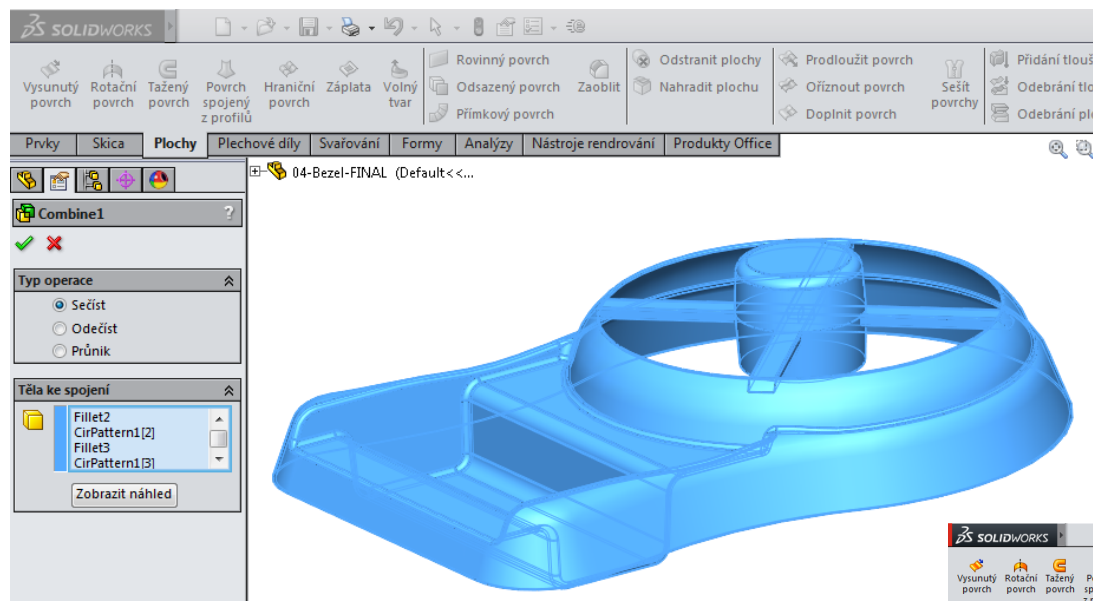
Lekce 4: Kruhové pole



: 04-Bezel.SLDPRT

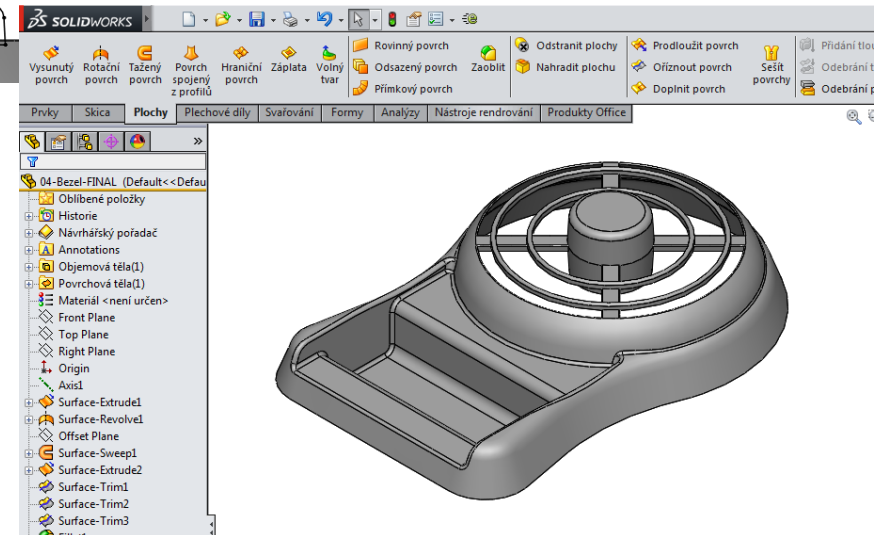
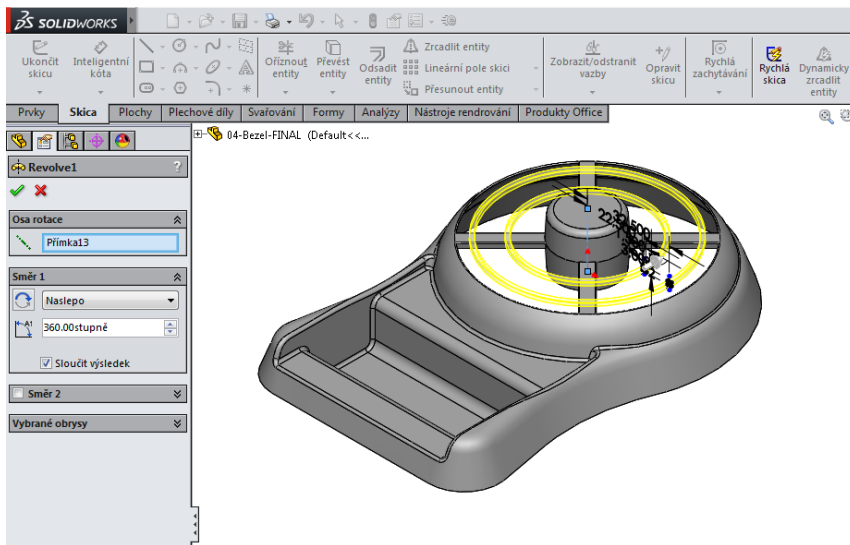
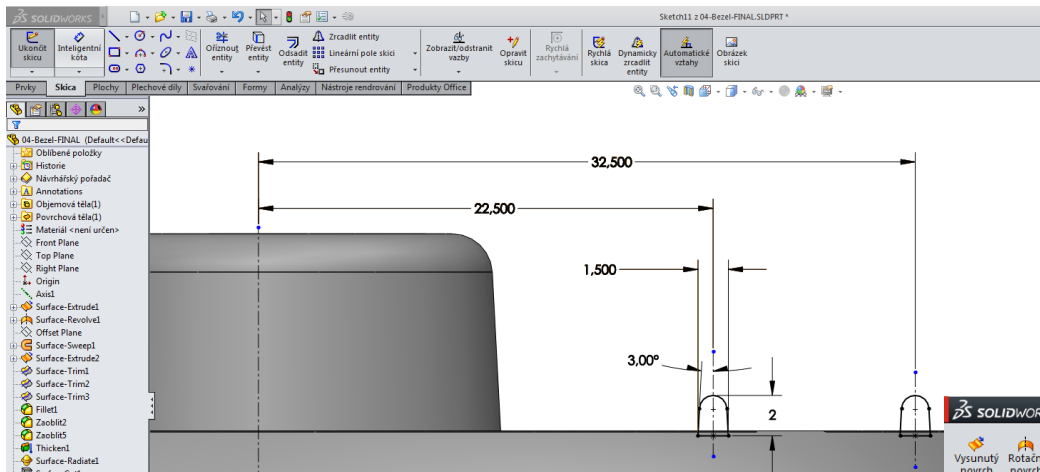


Lekce 4: Kombinovat (Sečíst)



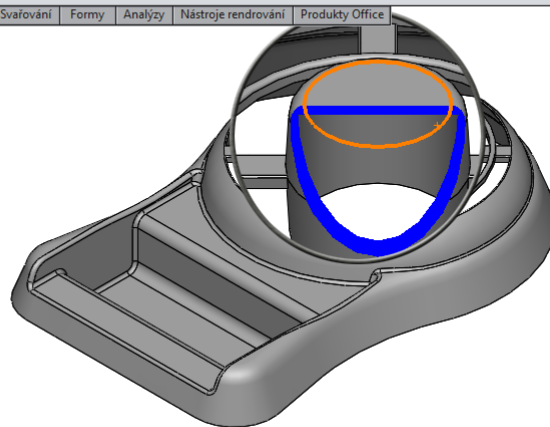
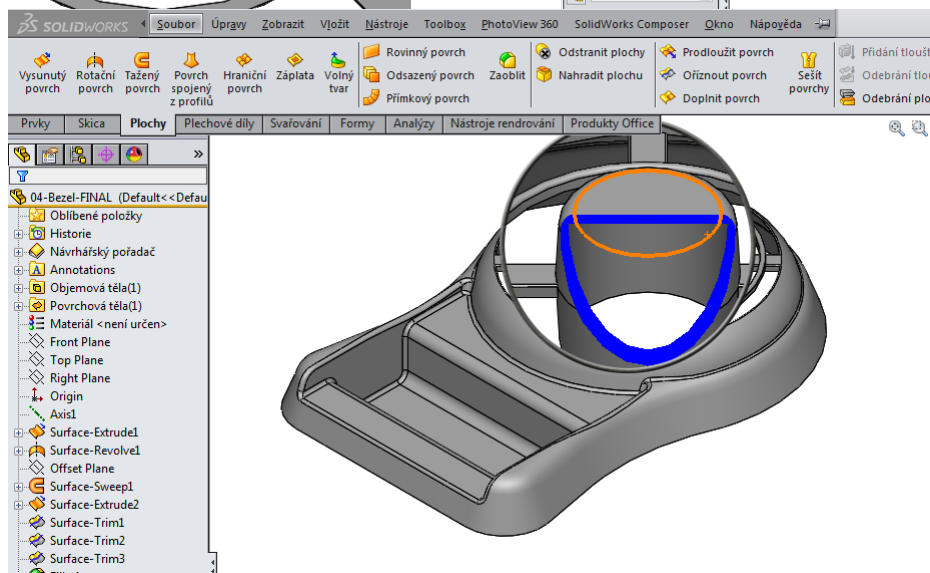
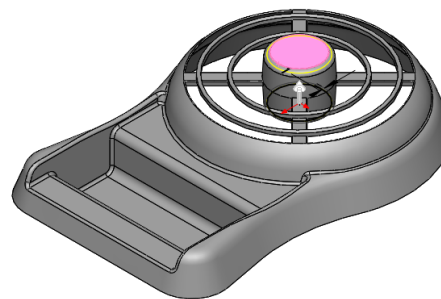
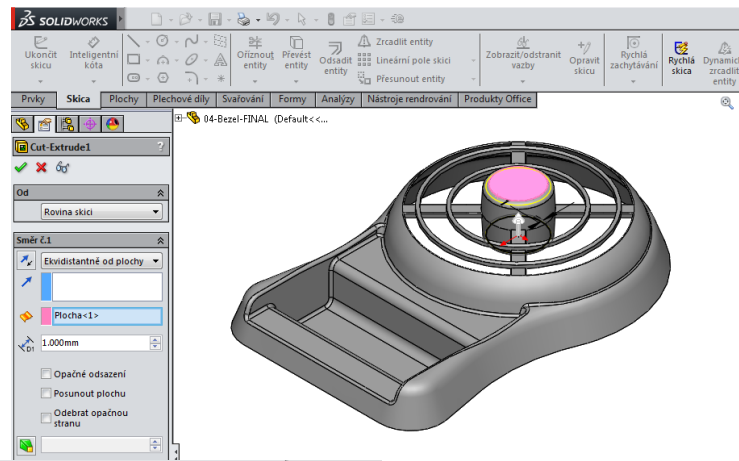
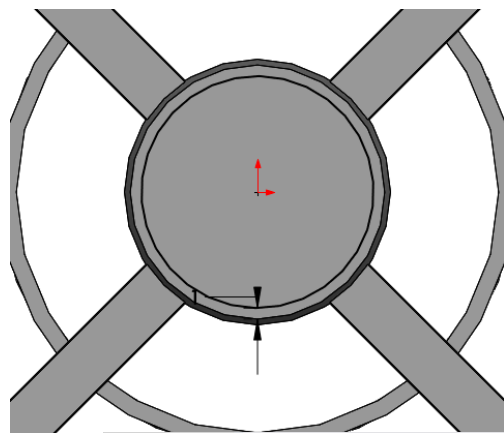
: 04-Bezel.SLDPRT

Lekce 4: Skica



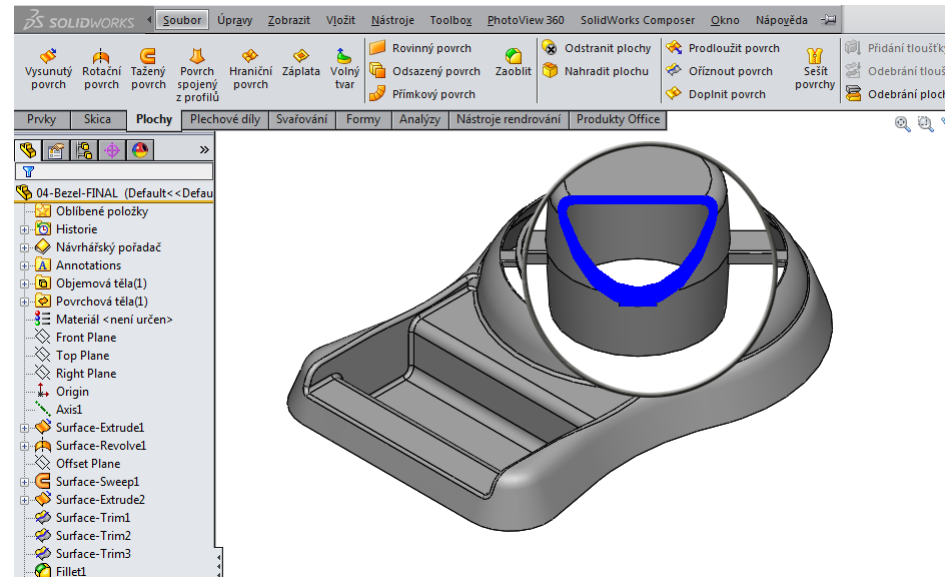
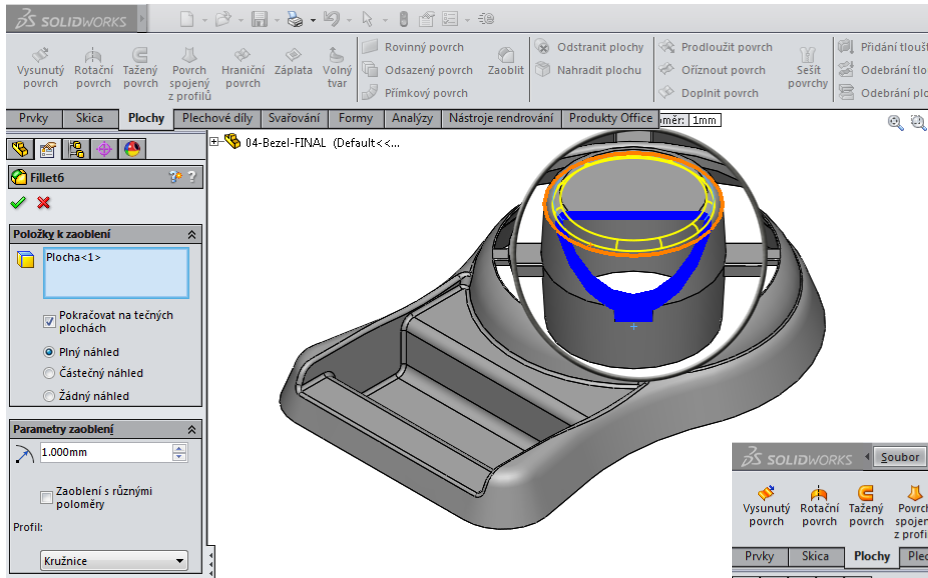
: 04-Bezel.SLDPR

Lekce 4: Skica, Odebrání vysunutím



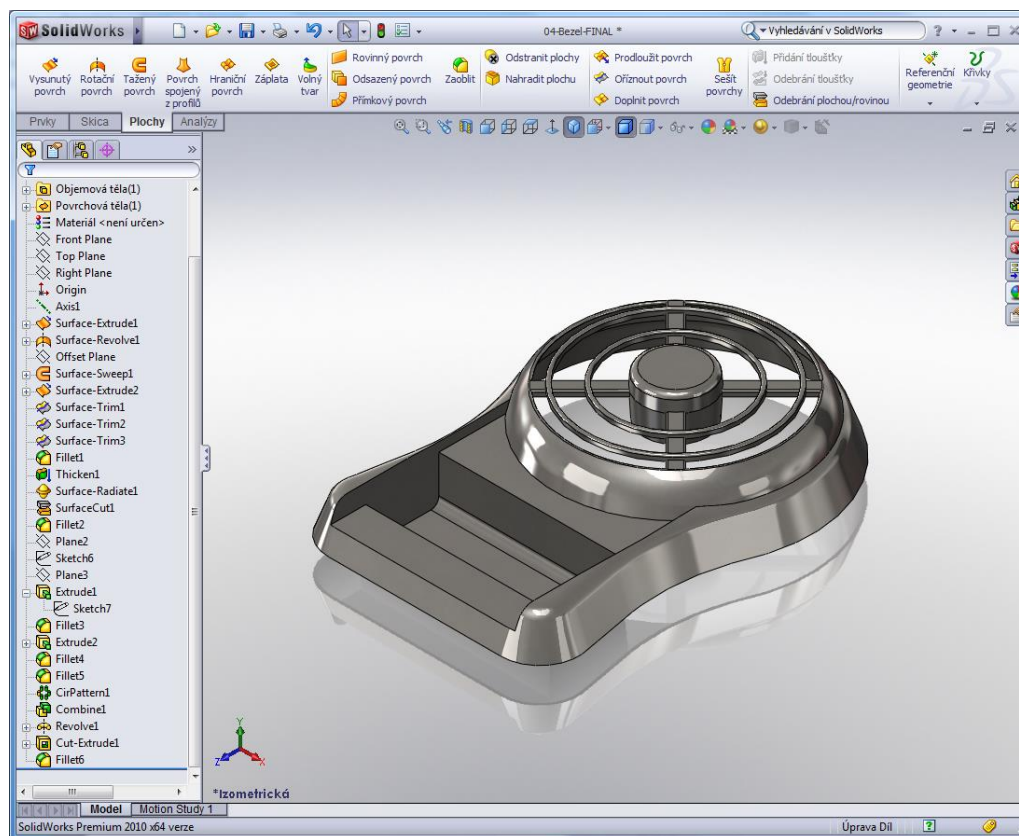
: 04-Bezel.SLDPR

Lekce 4: Zaoblit



 : 04-Bezel.SLDPRT

Lekce 4

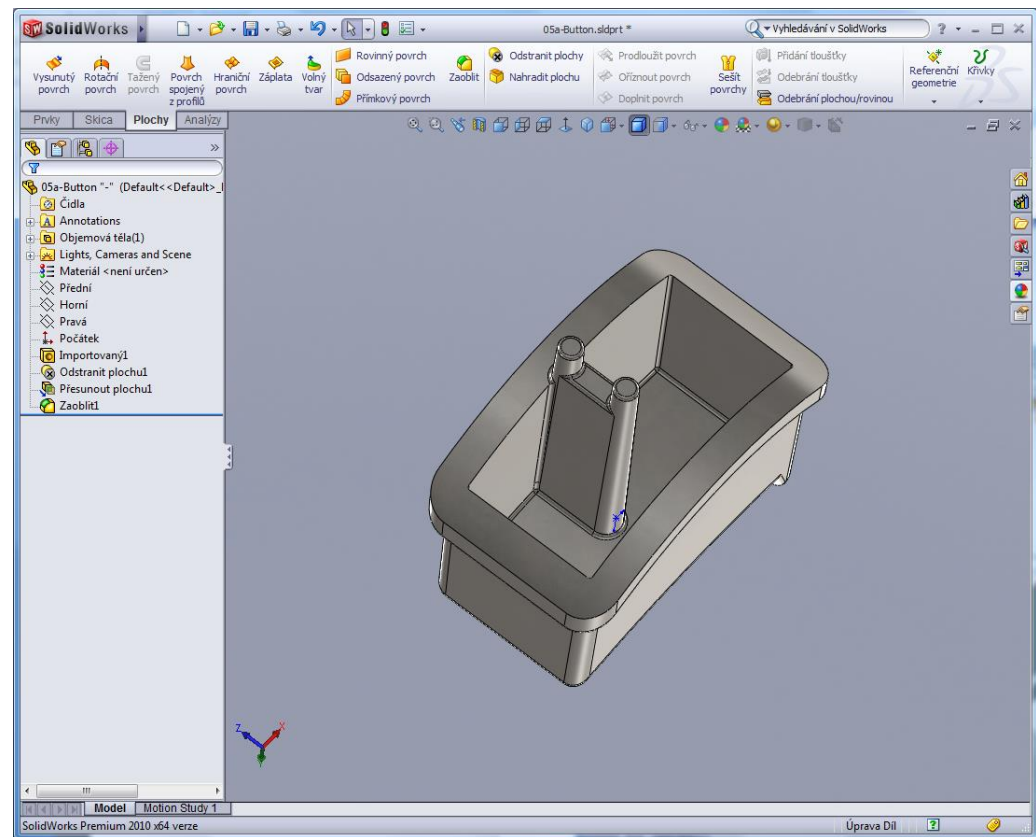


: 04-Bezel.SLDPRT

Lekce 5: Importovaná geometrie a její úpravy

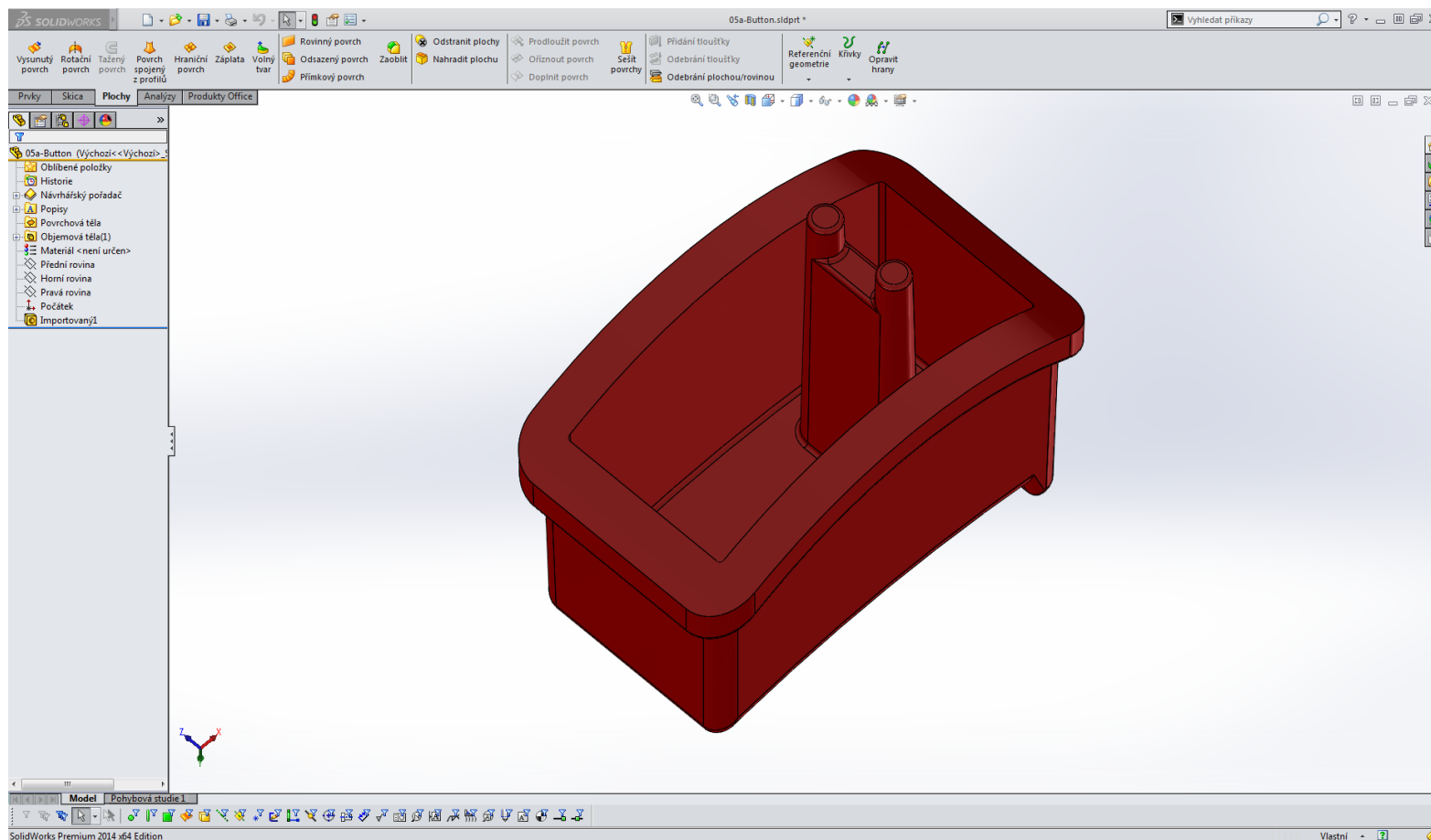


- Import Parasolid 05a...
- Odstranit plochy
- Prodloužit povrchy
- Záplata
- Oříznout povrch
- Import plochy 05b...
- Vložit Díl
- Přesunout/Kopírovat
- Nahradit plochu
- Přesunout plochu
- Přidat tloušťku
- Přesunout plochu



: 05a-Button.x_t, 05b-New Surface.x_t

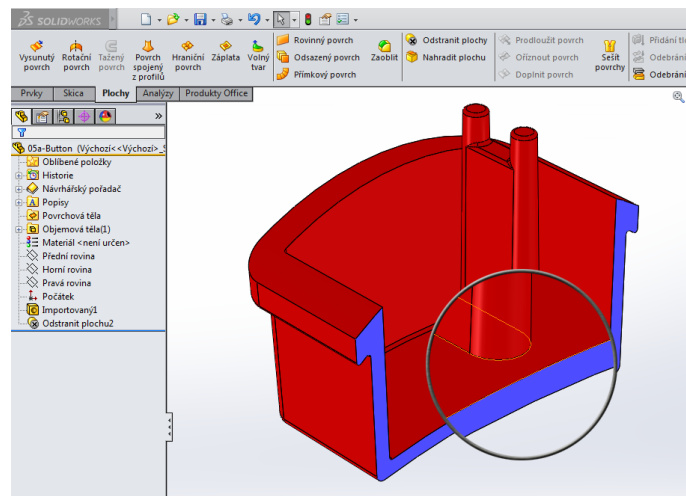
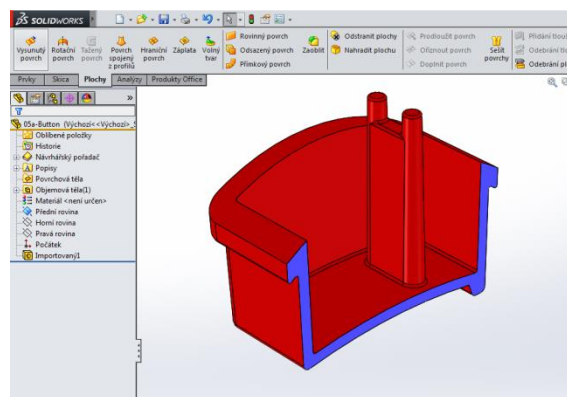
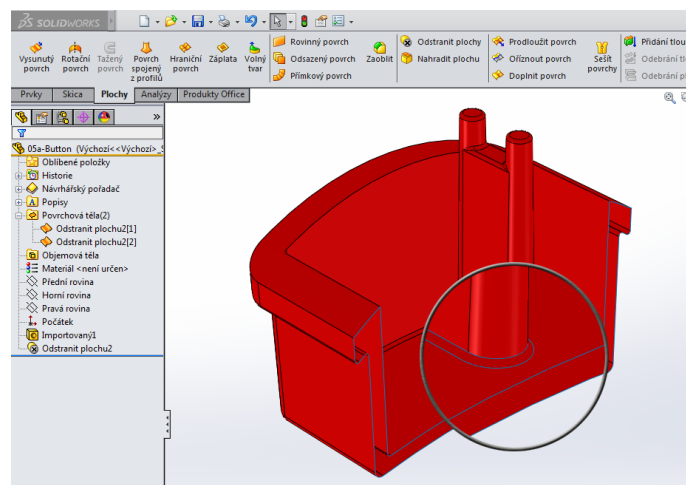
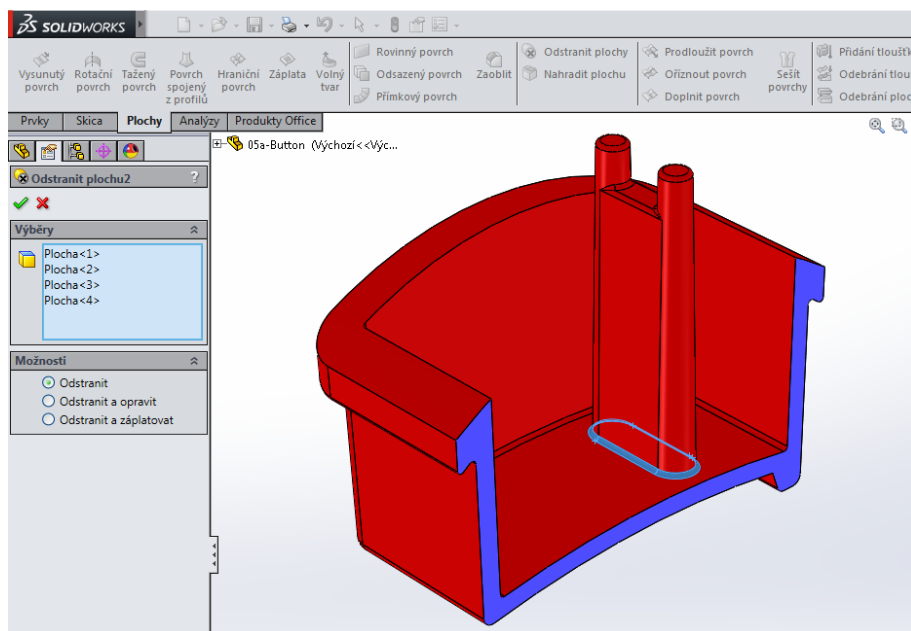
Lekce 5: Import 05a-Button.x_t



: 05a-Button.x_t, 05b-New Surface.x_t



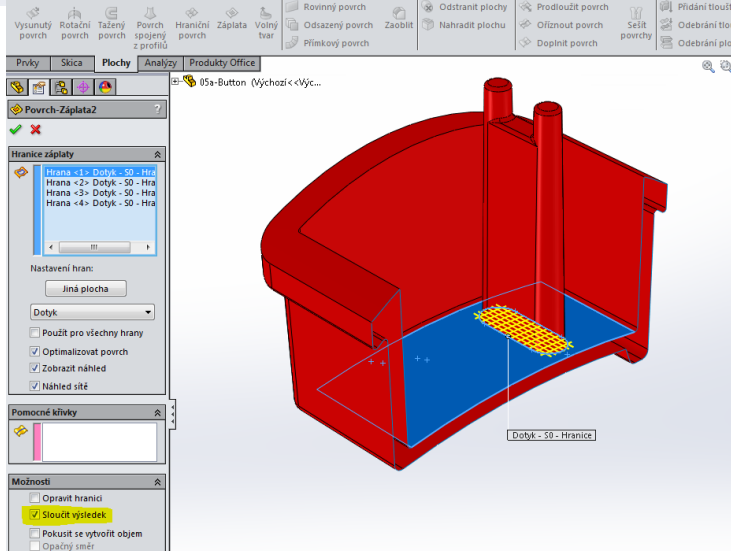
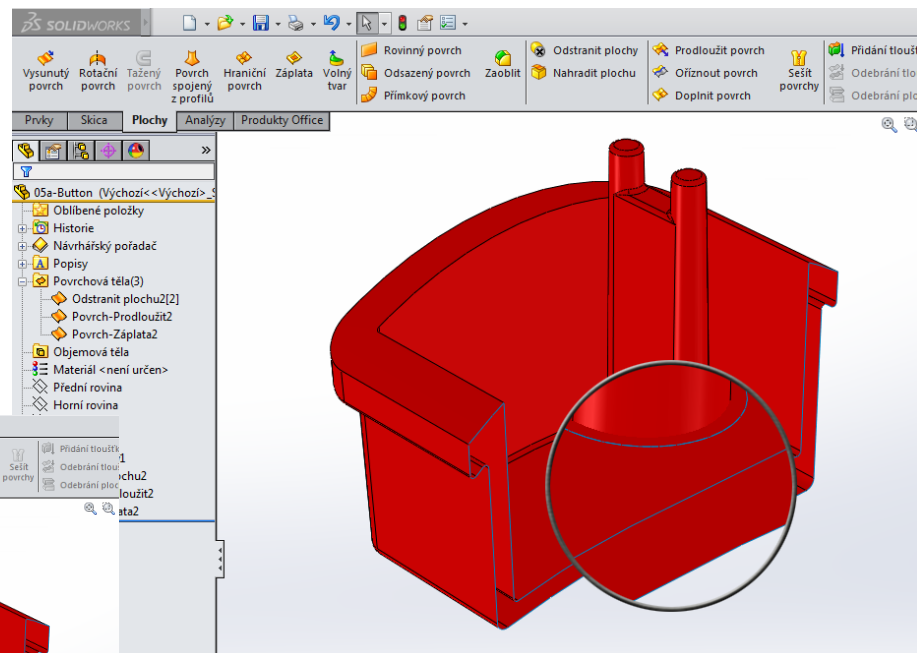
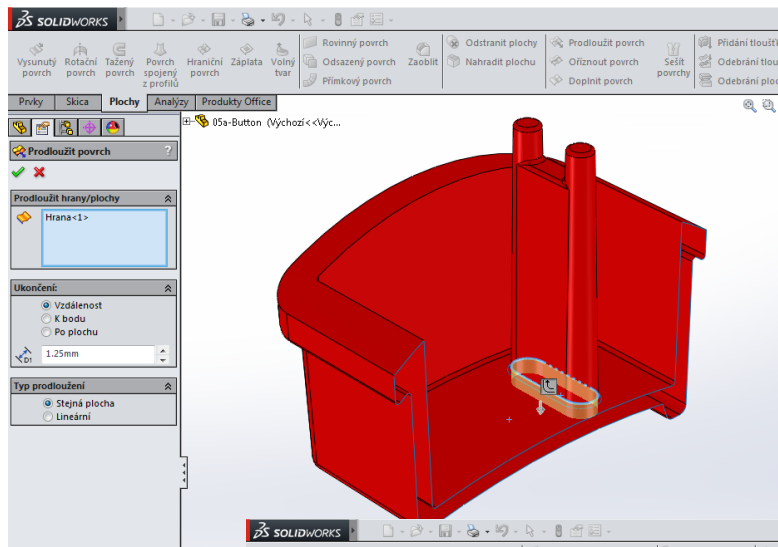
Lekce 5: Odstranit plochy



: 05a-Button.x_t, 05b-New Surface.x_t

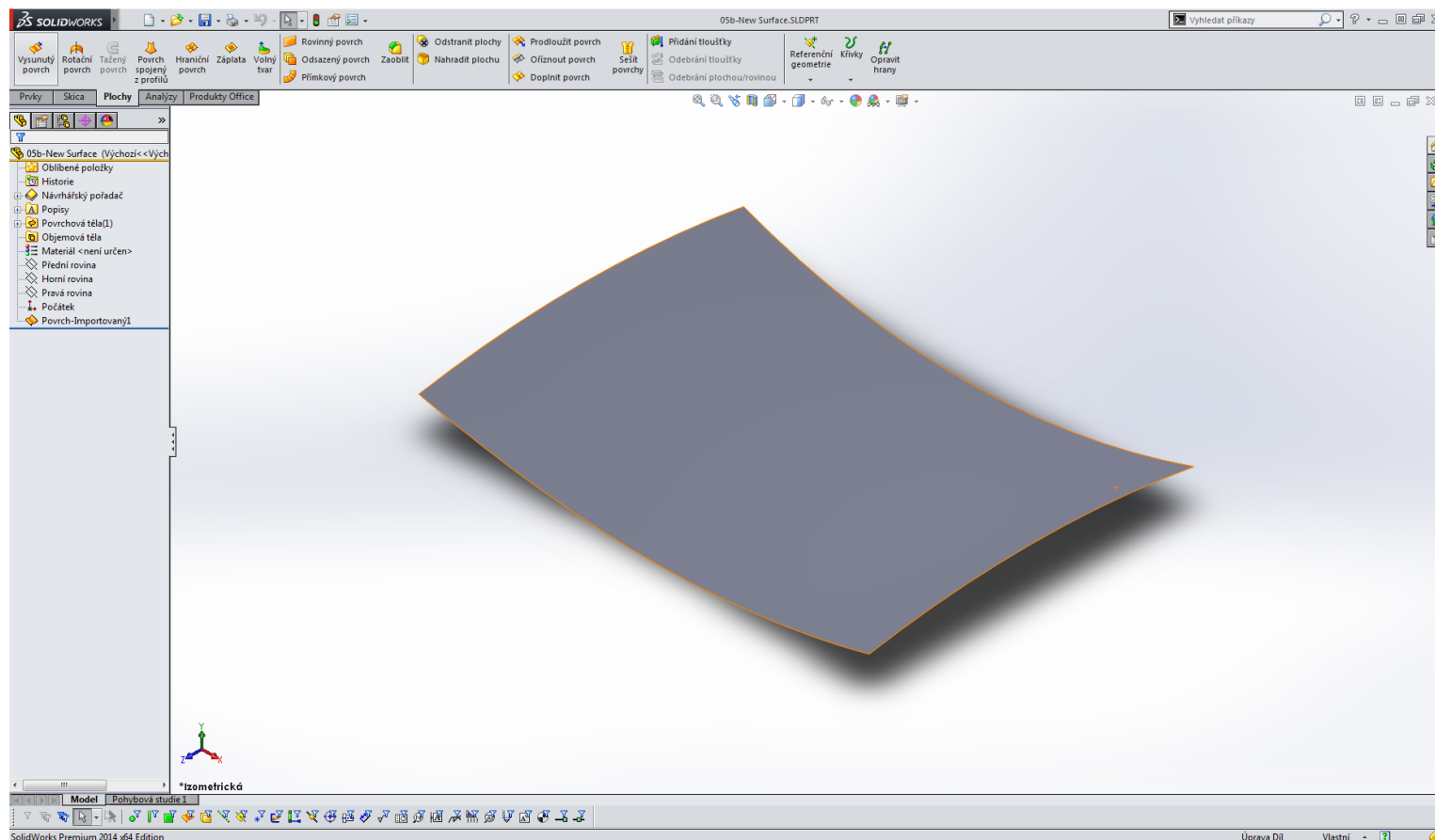


Lekce 5: Prodloužit povrchy, Záplata



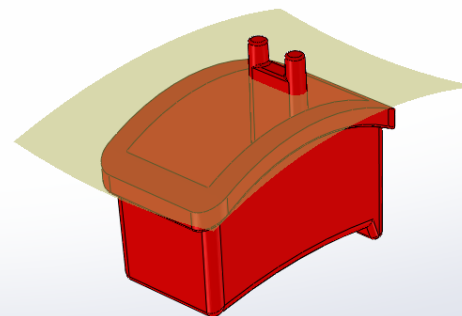
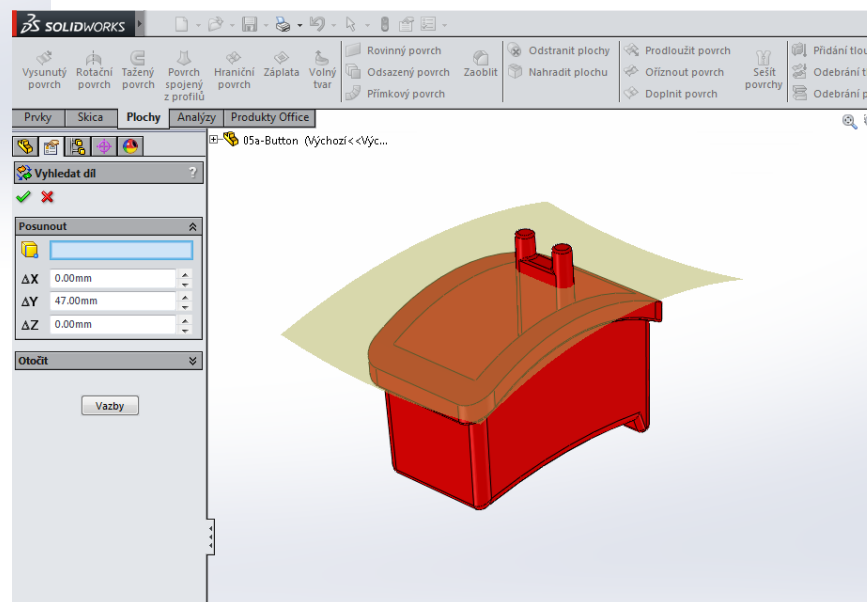
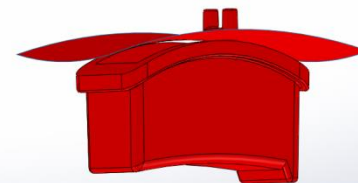
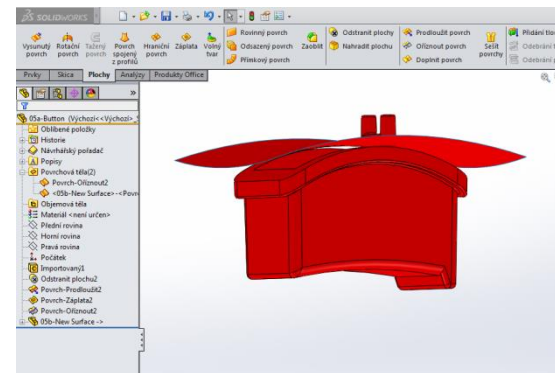
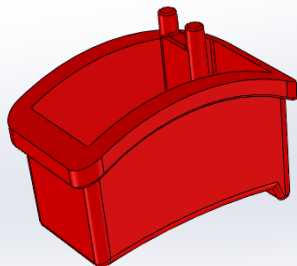
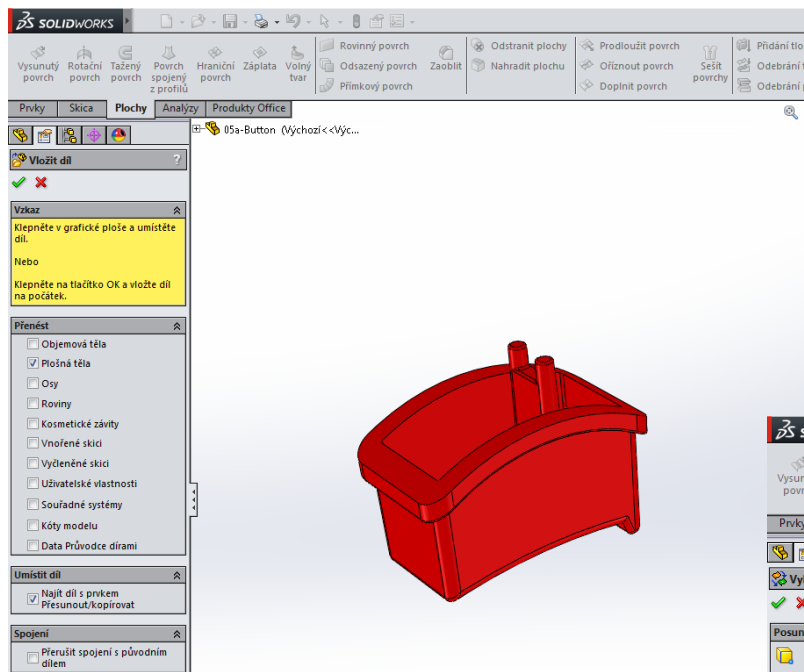
: 05a-Button.x_t, 05b-New Surface.x_t

Lekce 5: Import 05b-New Surface.x_t



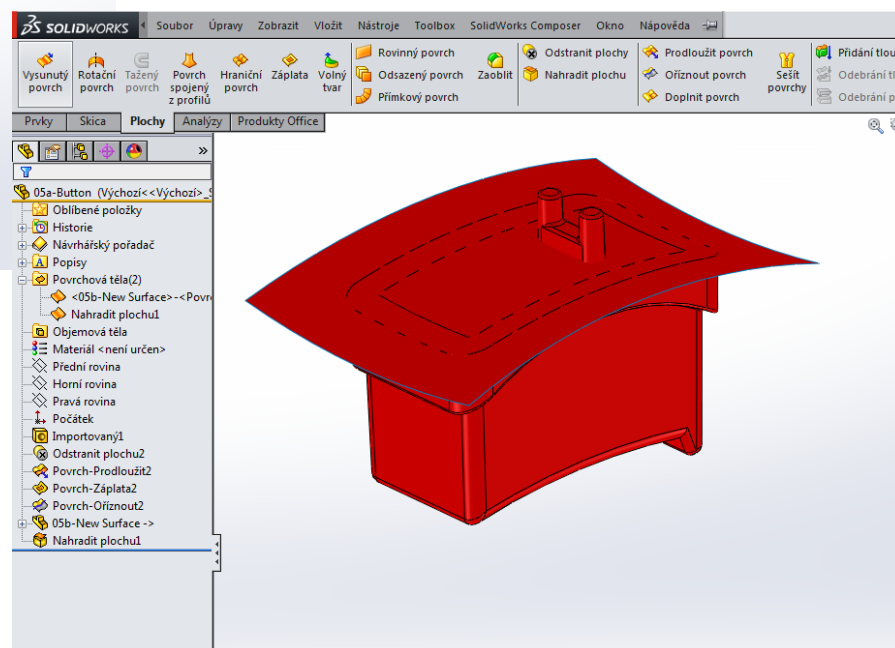
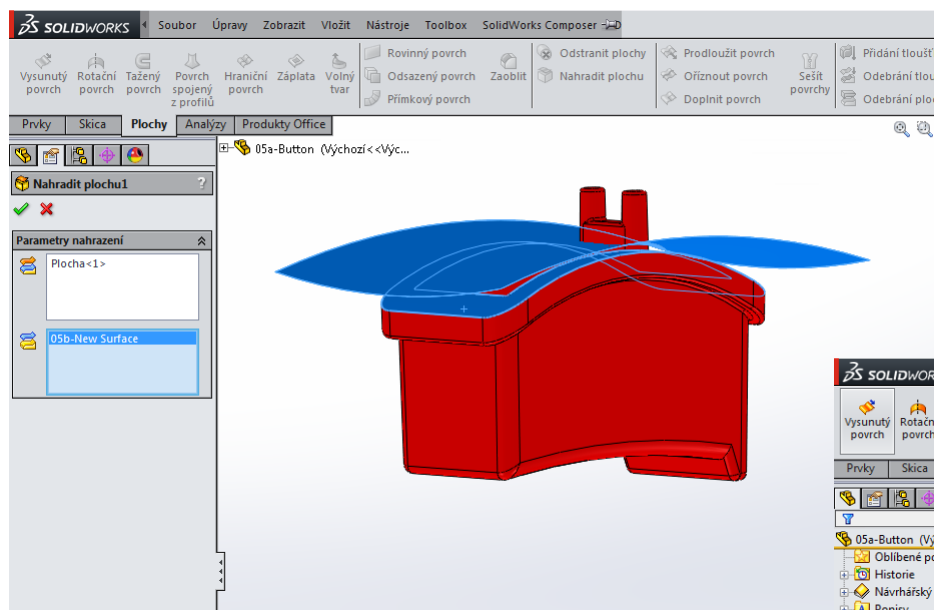
: 05a-Button.x_t, 05b-New Surface.x_t

Lekce 5: Vložit Díl, Přesunout/Kopírovat



: 05a-Button.x_t, 05b-New Surface.x_t

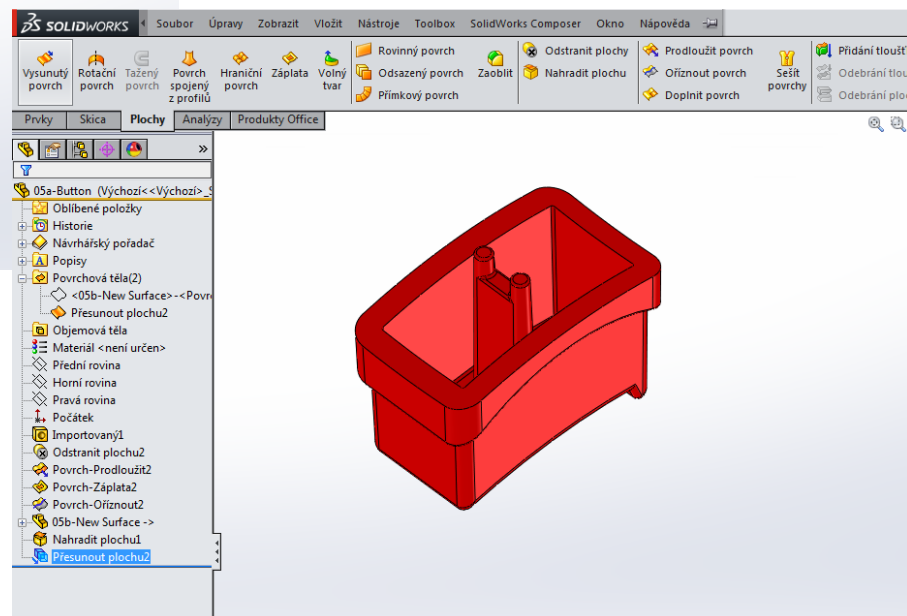
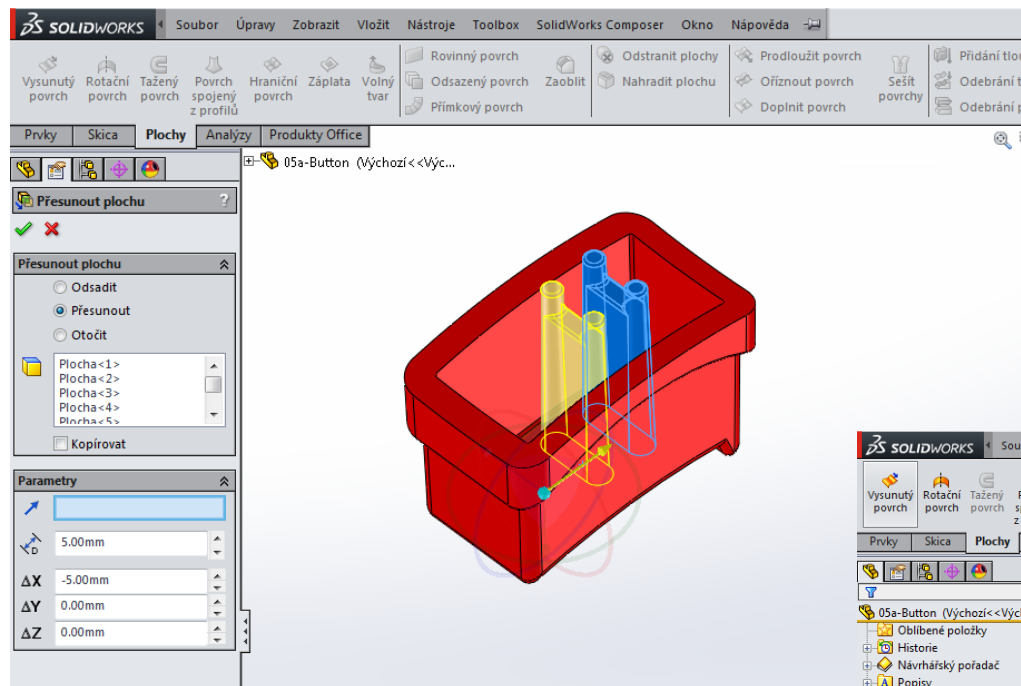
Lekce 5: Nahradit plochu



: 05a-Button.x_t, 05b-New Surface.x_t

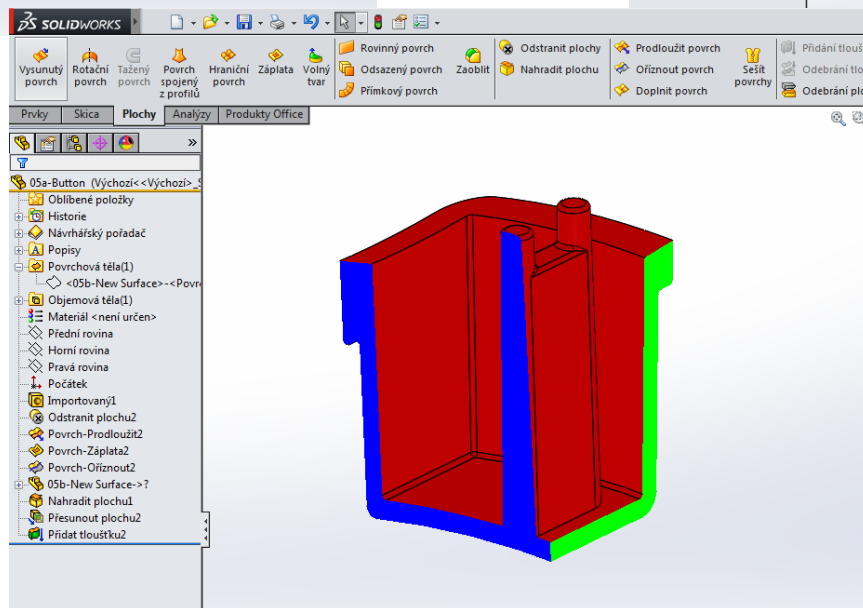
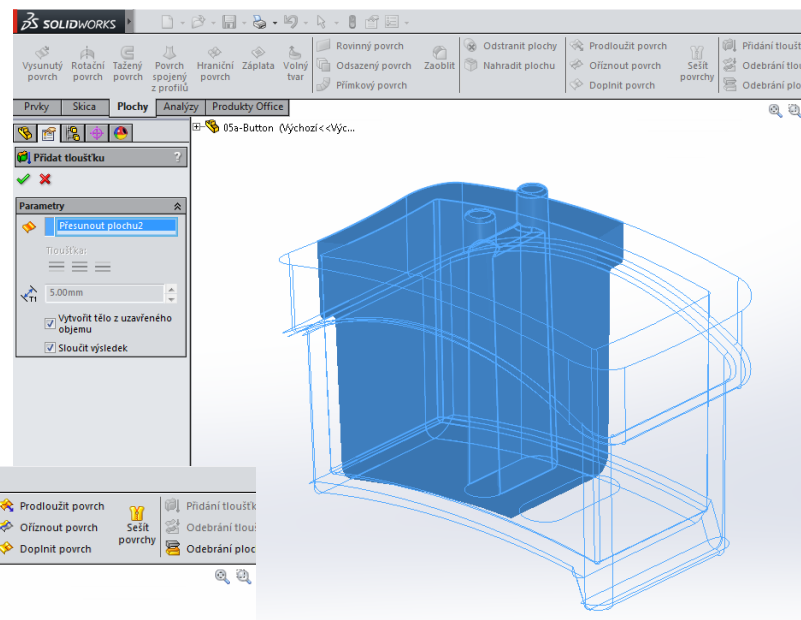
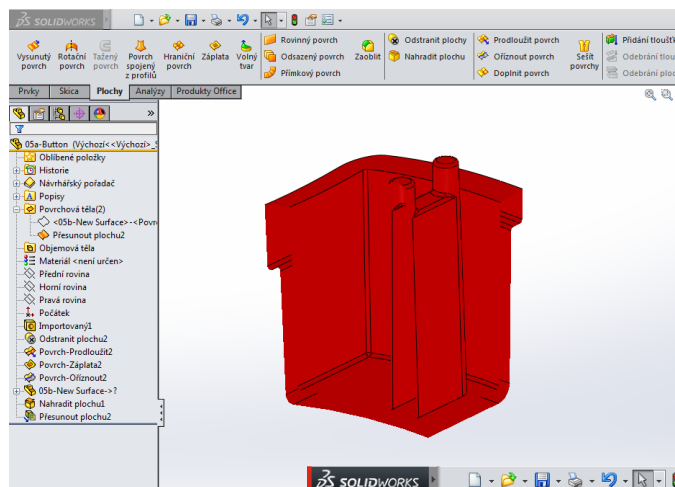


Lekce 5: Přesunout plochu



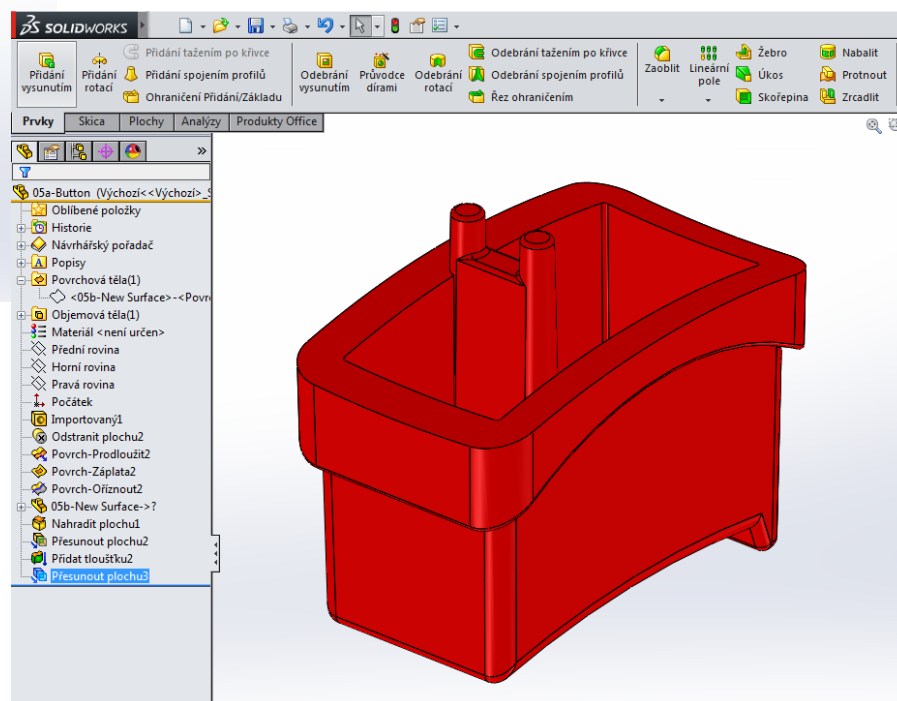
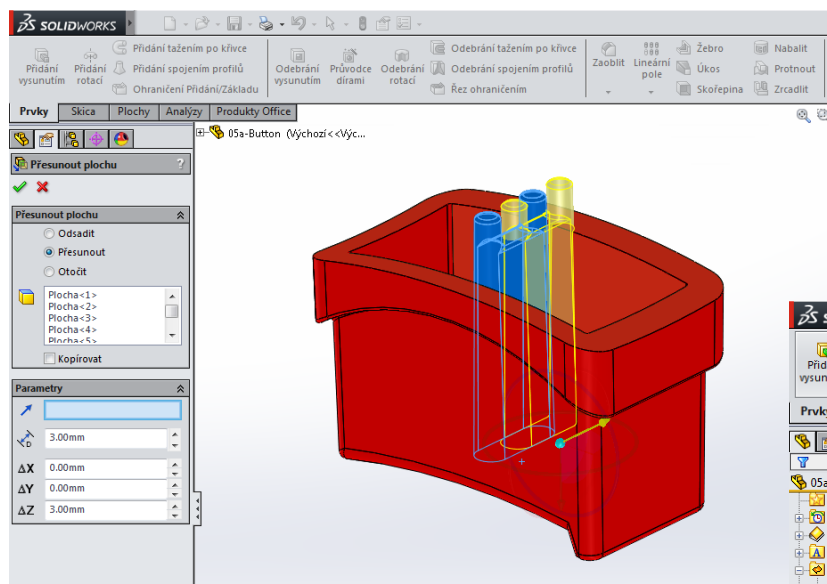
: 05a-Button.x_t, 05b-New Surface.x_t

Lekce 5: Přidat tloušťku



: 05a-Button.x_t, 05b-New Surface.x_t

Lekce 5: Přesunout plochu

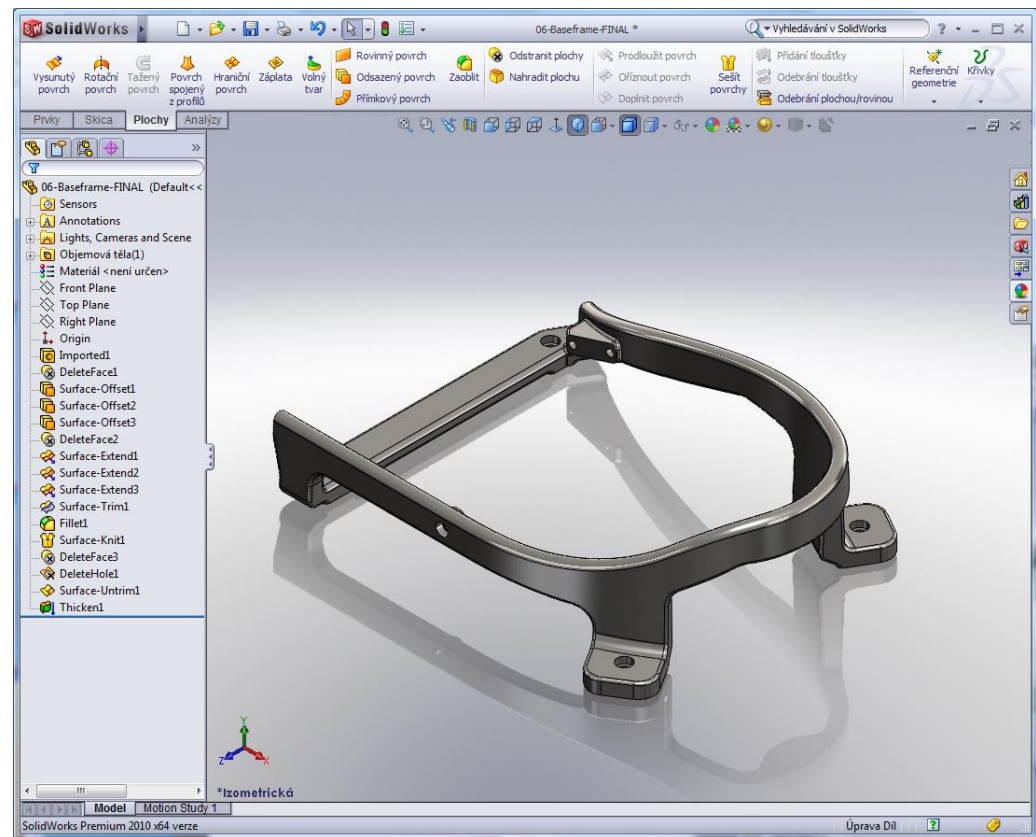


: 05a-Button.x_t, 05b-New Surface.x_t

Lekce 6: Opravy importované geometrie

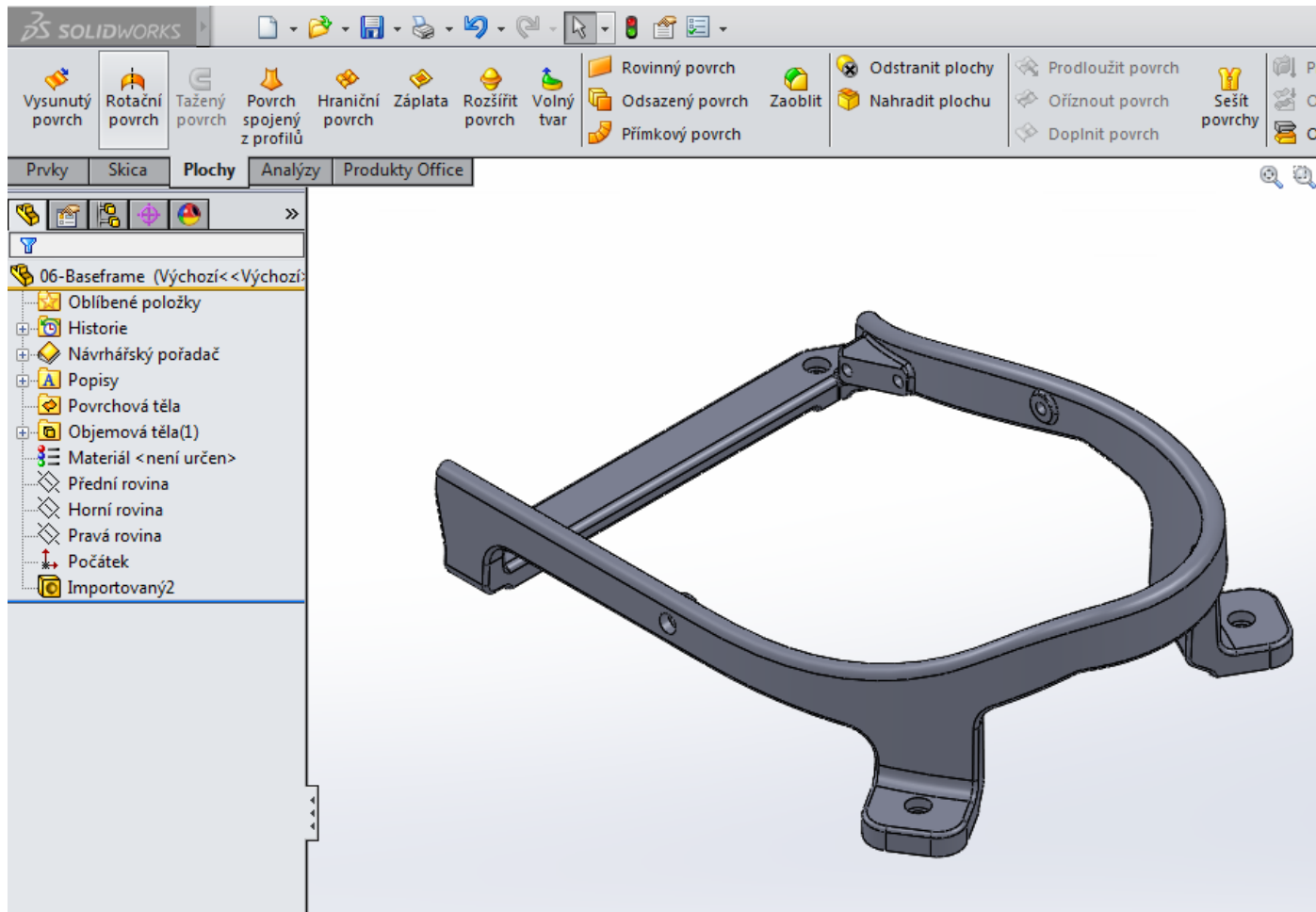


- Import STEP 06-Base...
- Diagnostika importu
- Odstranit plochy
- Záplata
- Odstranit díru
- Přidat tloušťku



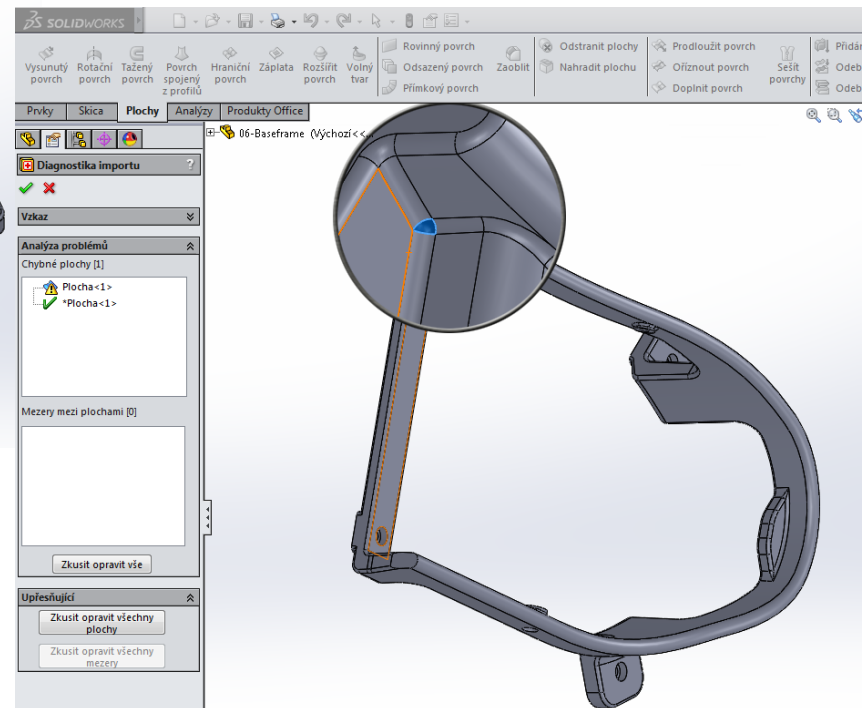
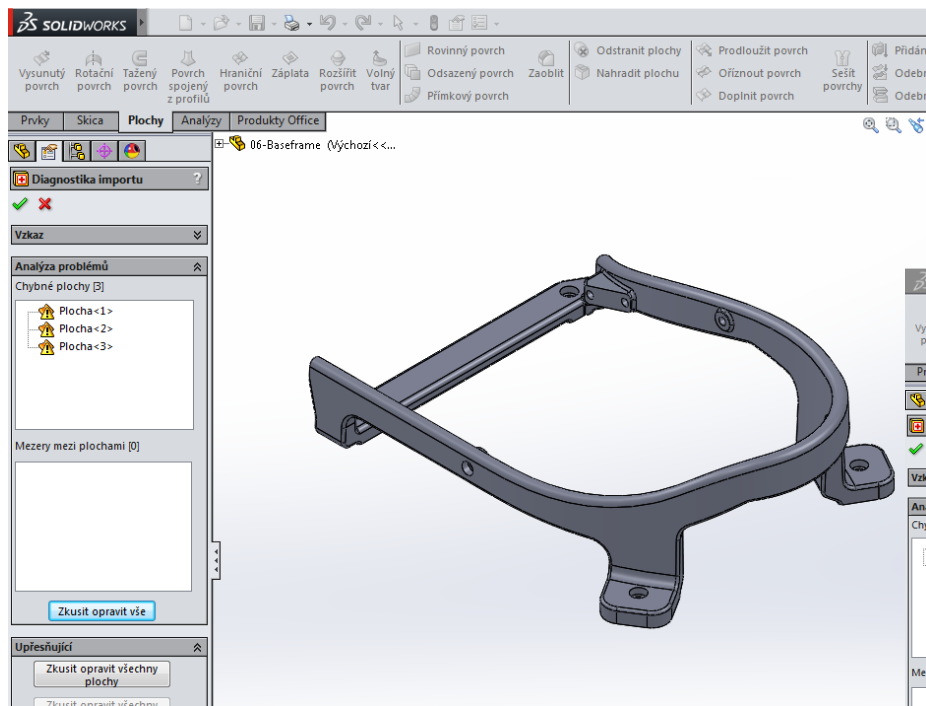
: 06-Baseframe.stp

Lekce 6: Import 06-Baseframe.stp



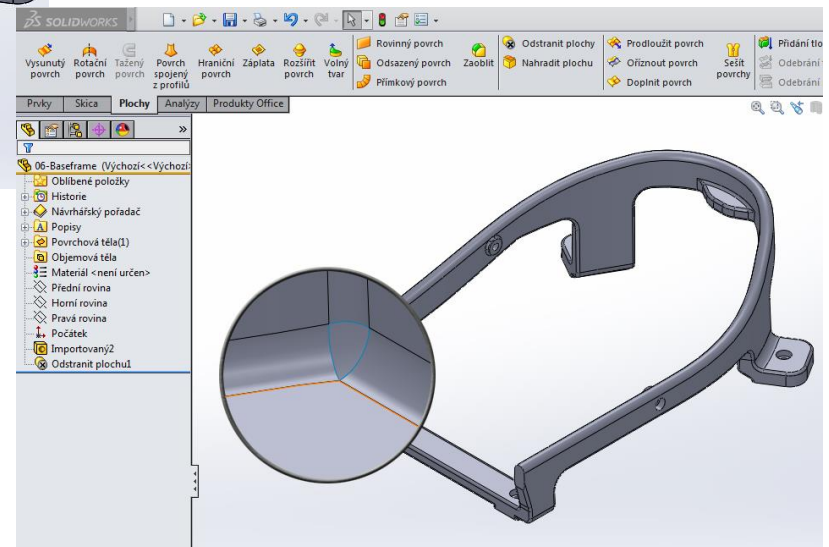
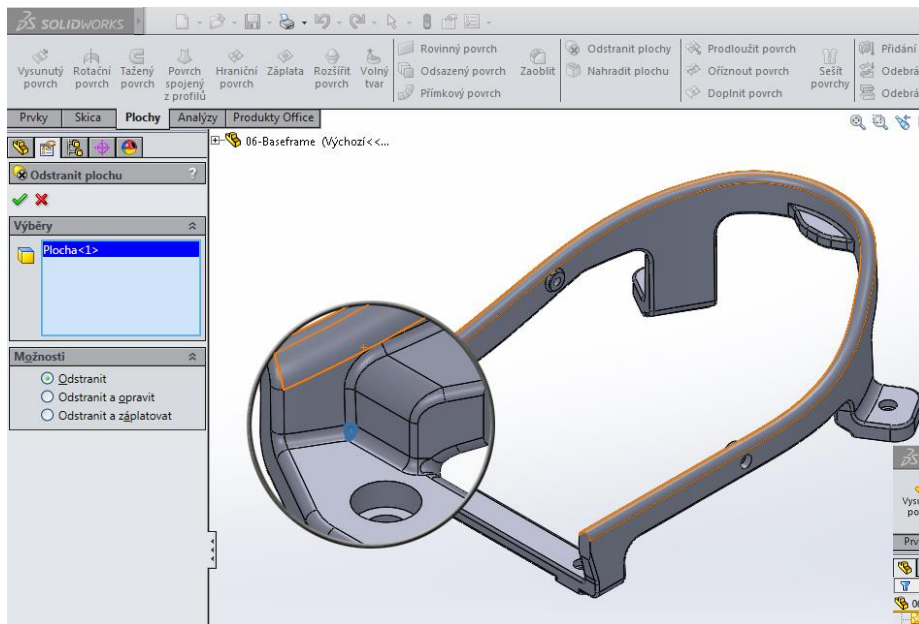
: 06-Baseframe.stp

Lekce 6: Diagnostika importu



: 06-Baseframe.stp

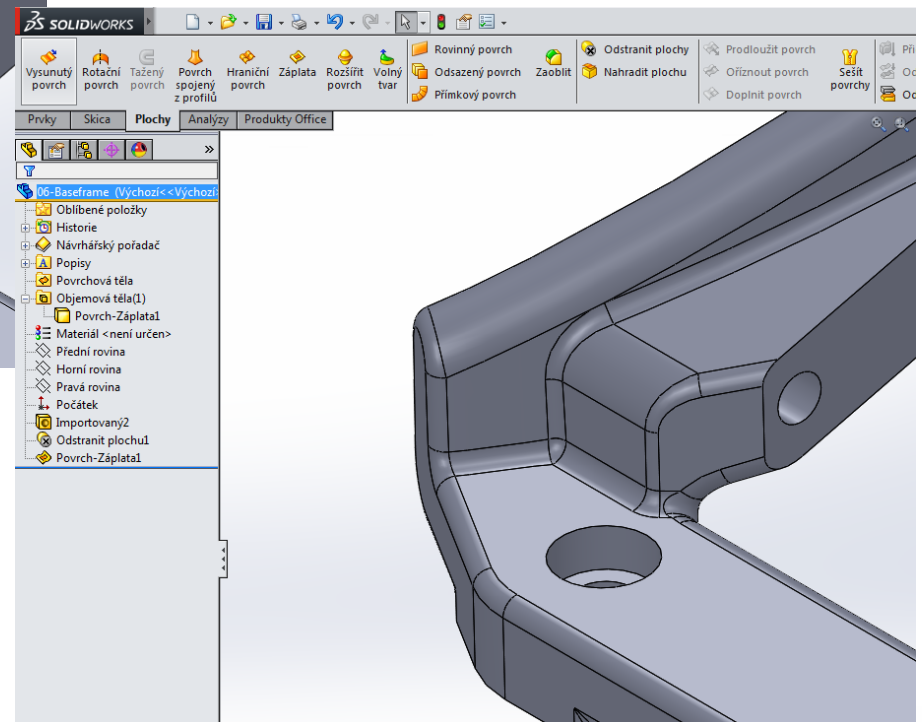
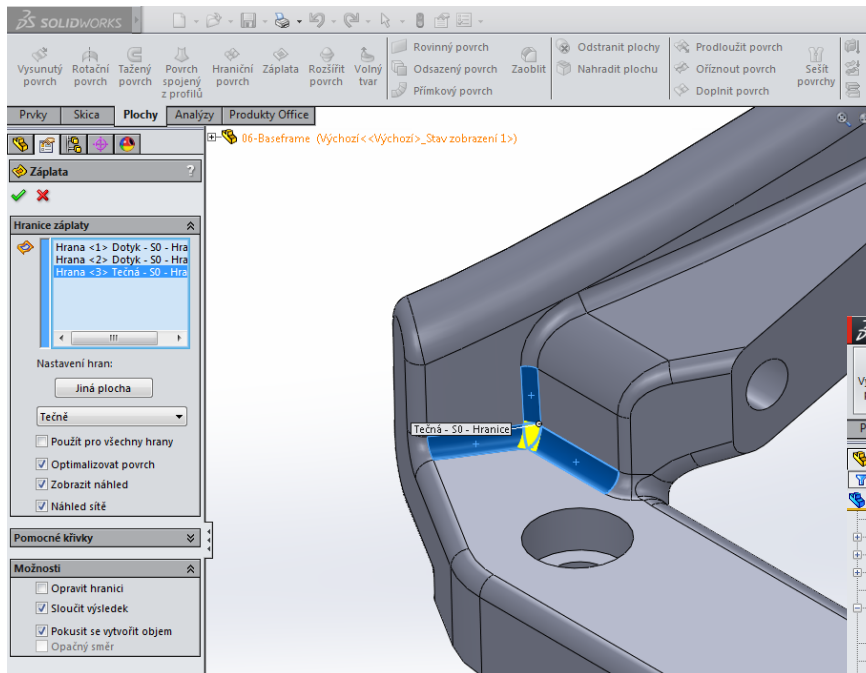
Lekce 6: Odstranit plochy



: 06-Baseframe.stp

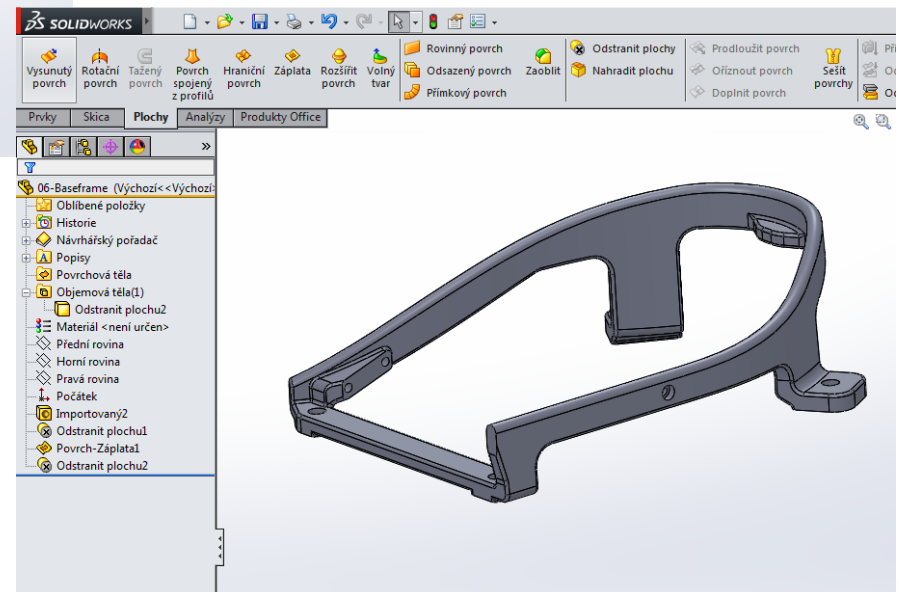
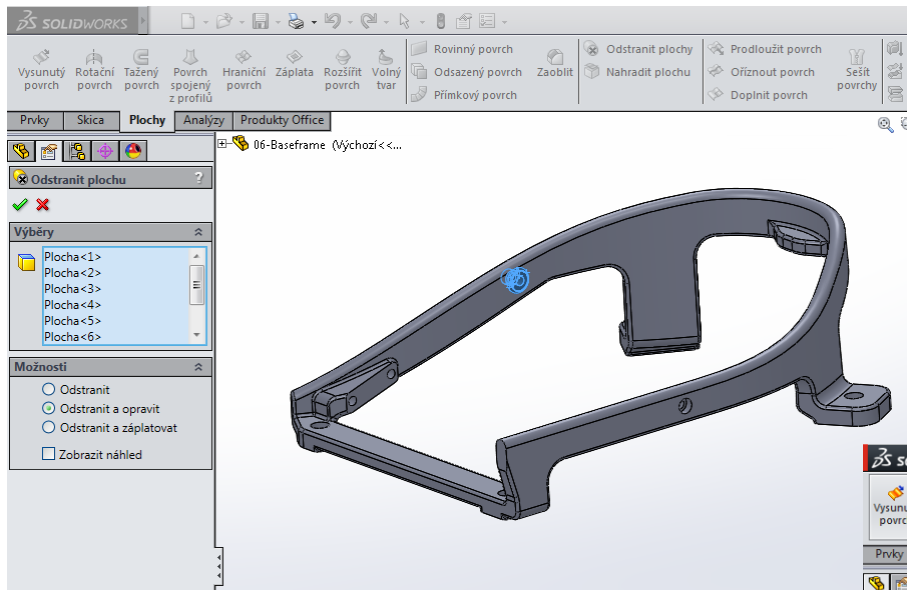


Lekce 6: Záplata



: 06-Baseframe.stp

Lekce 6: Odstranit díru

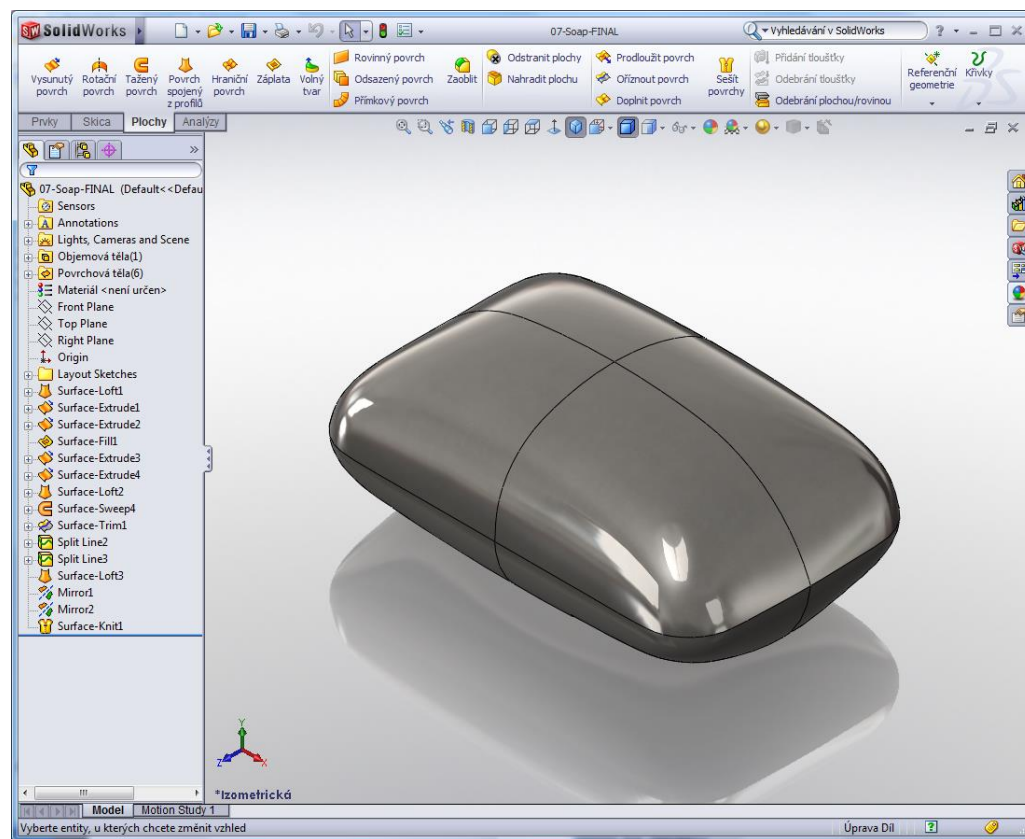


: 06-Baseframe.stp



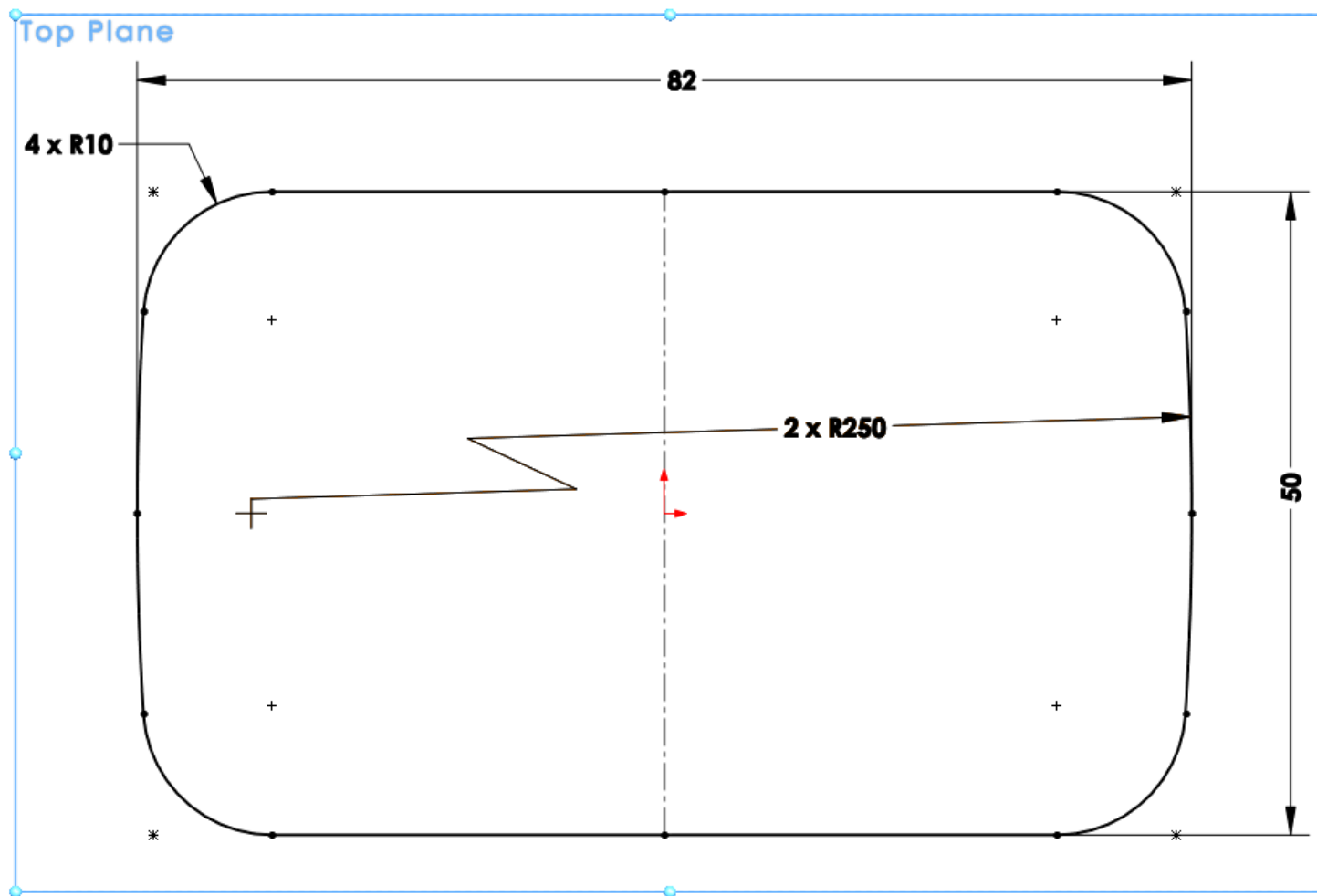
Lekce 7: Pokročilé techniky modelování ploch

- Tečné úsečky
- Vysunutý povrch
- Povrch spojený z profilů
- Záplata
- Tažený povrch
- Oříznout povrch
- Rozdělovací křivka
- Zrcadlit
- Sešít povrchy



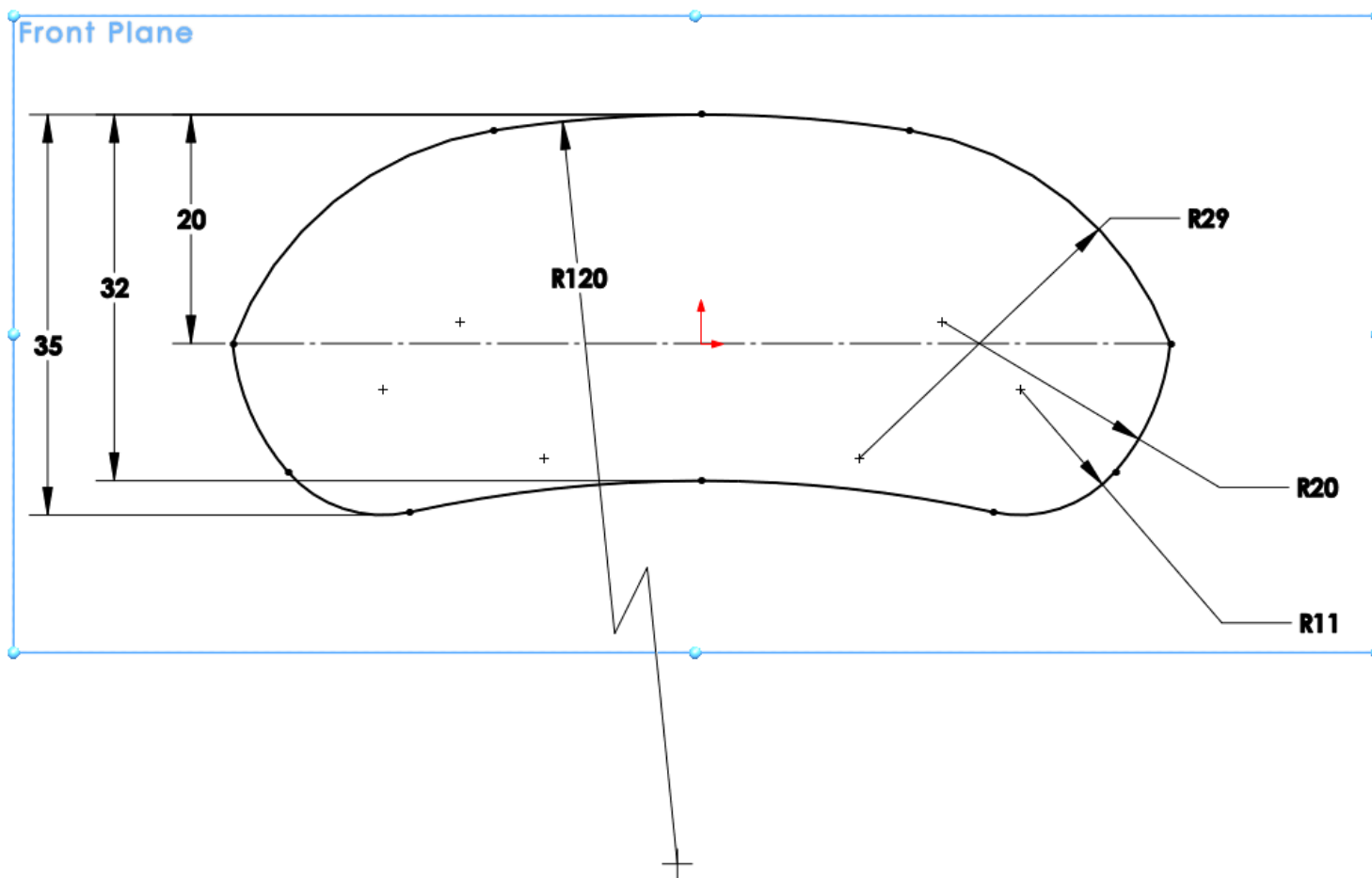
: 07-Soap.SLDPRT

Lekce 7: Podkladová skica 1



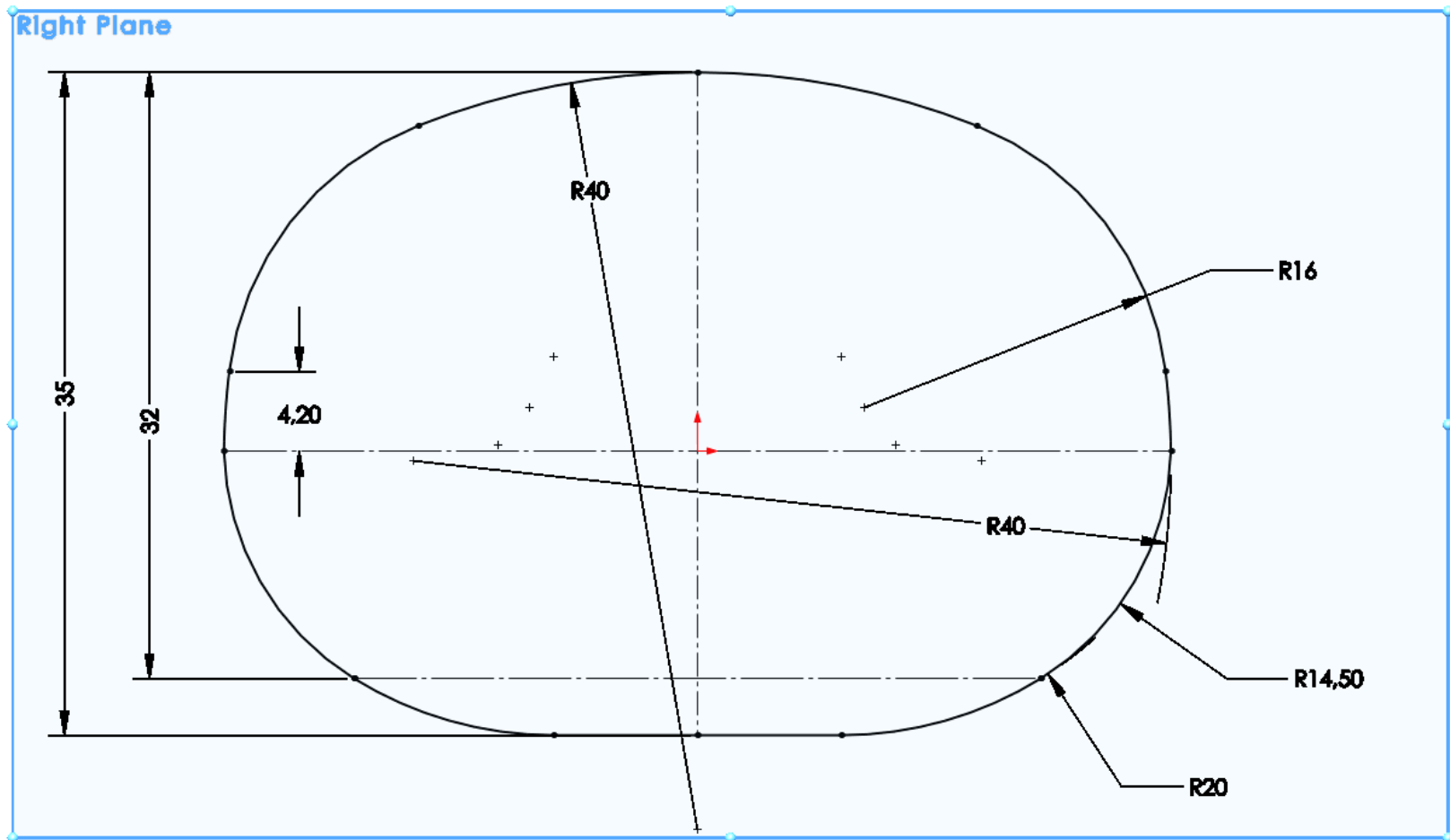
: 07-Soap.SLDPRT

Lekce 7: Podkladová skica 2



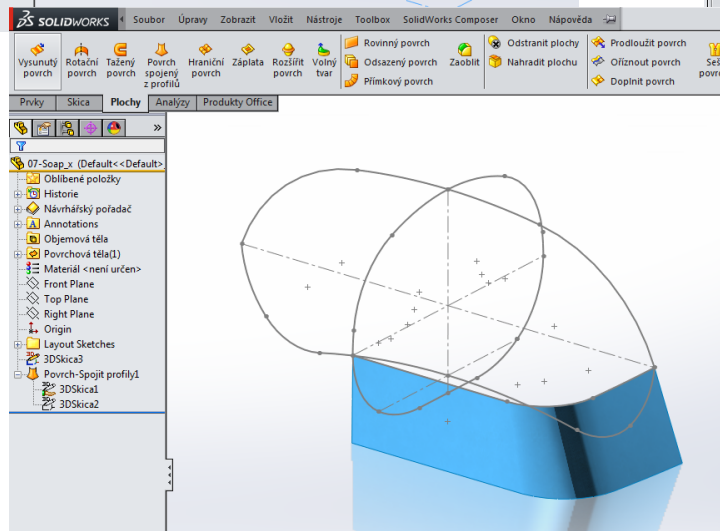
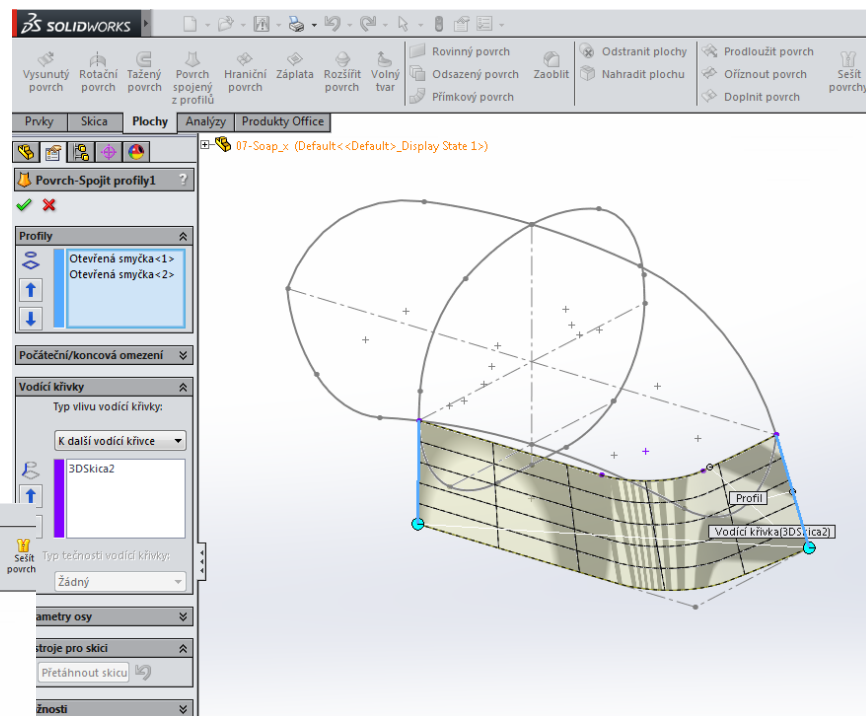
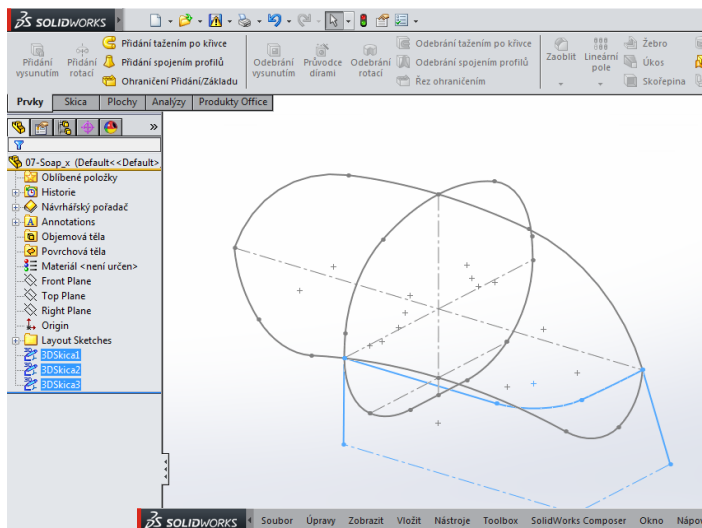
: 07-Soap.SLDPRT

Lekce 7: Podkladová skica 3



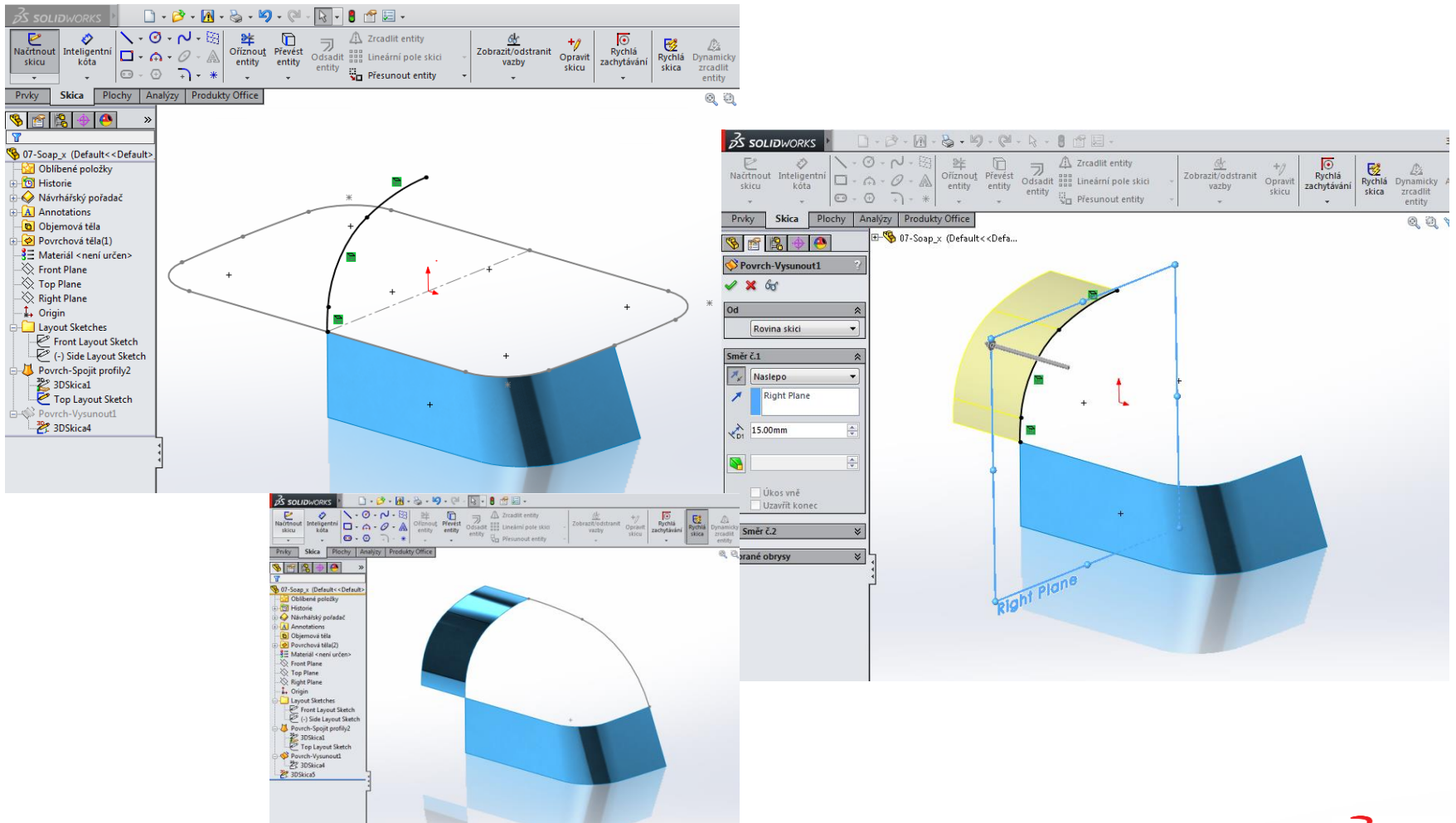
: 07-Soap.SLDPRT

Lekce 7: Povrch spojený z profilů



: 07-Soap.SLDPRT

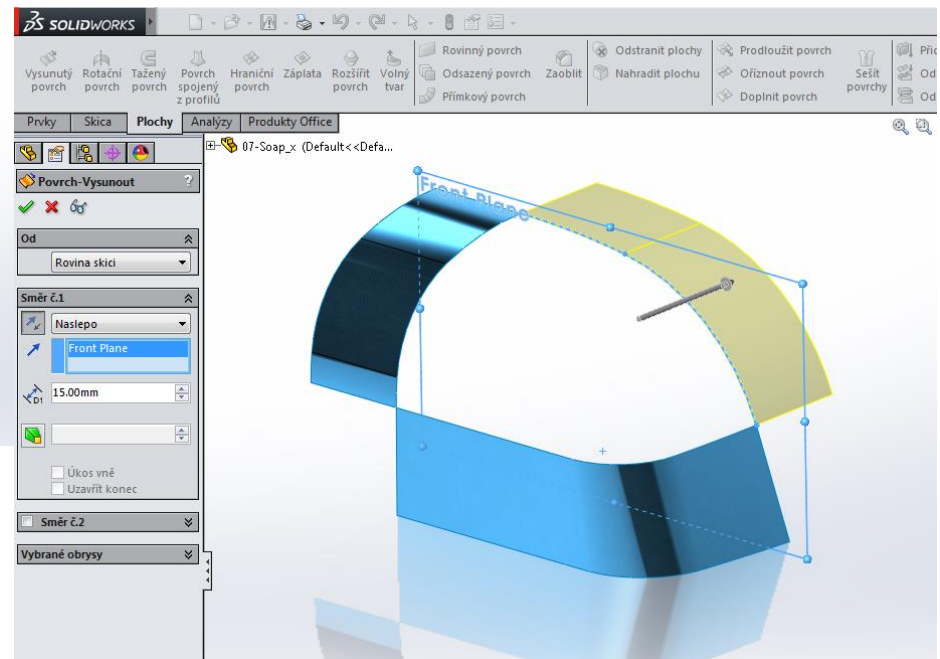
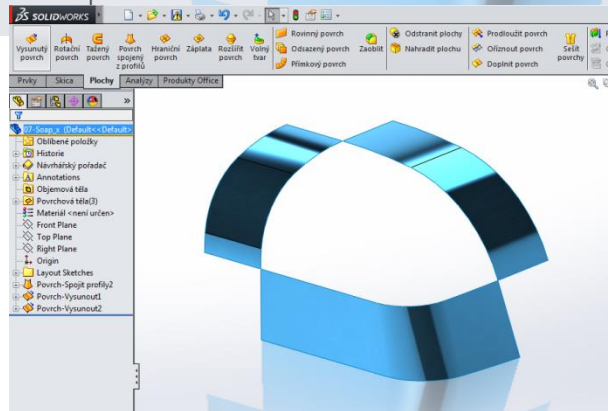
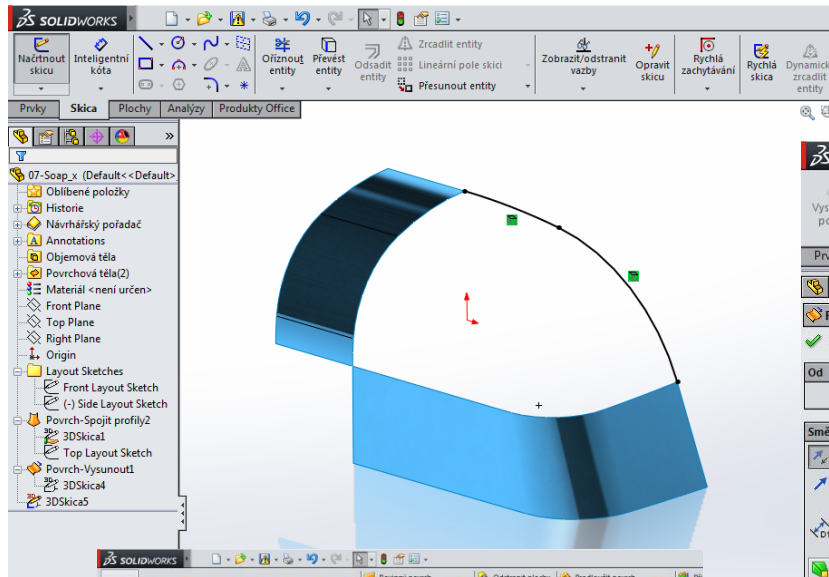
Lekce 7: Vysunutý povrch



: 07-Soap.SLDPRT

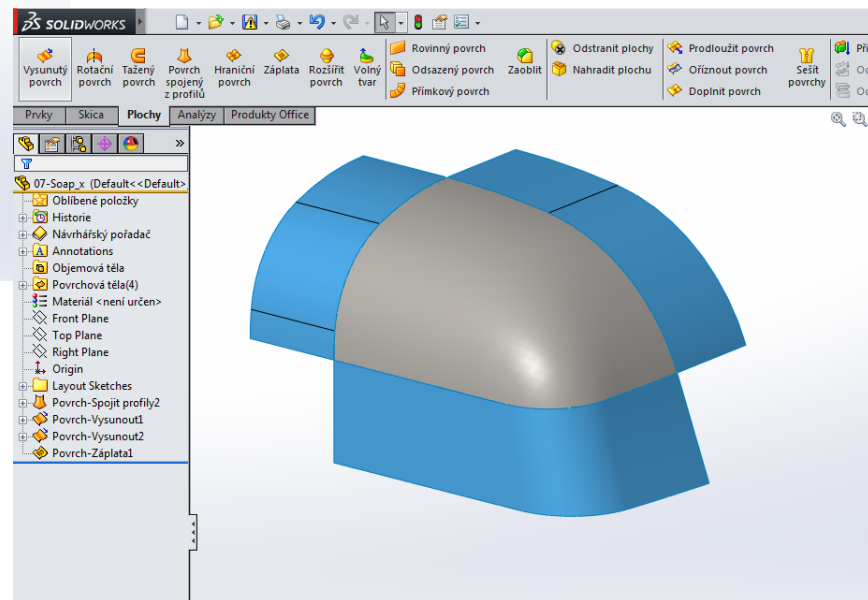
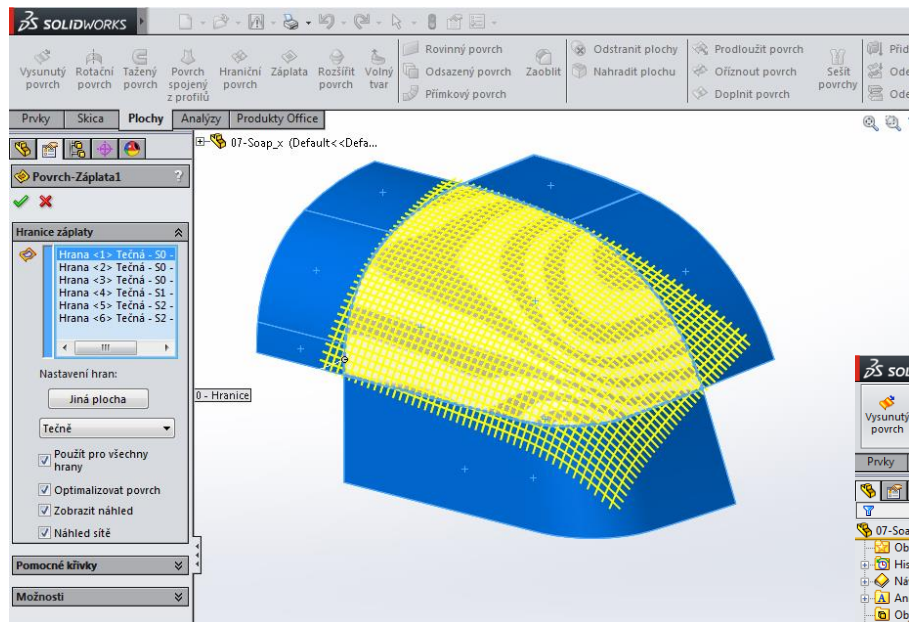


Lekce 7: Vysunutý povrch



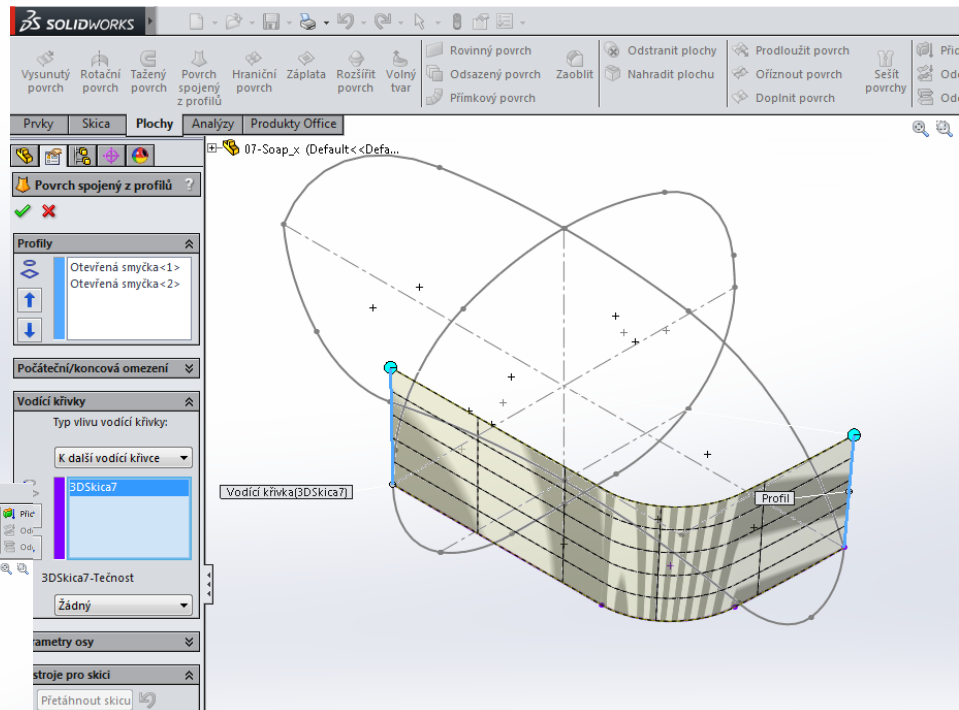
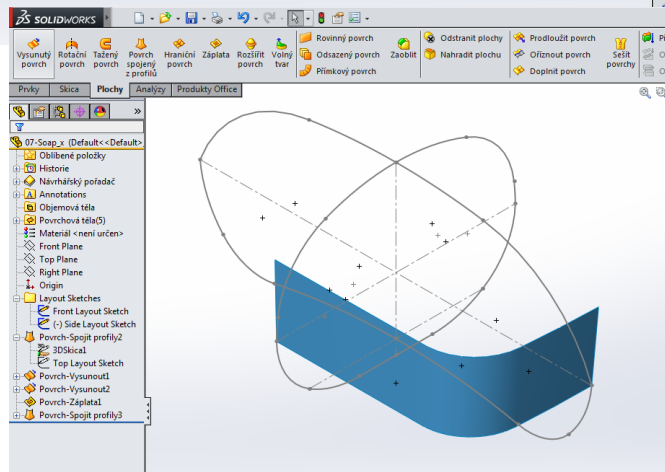
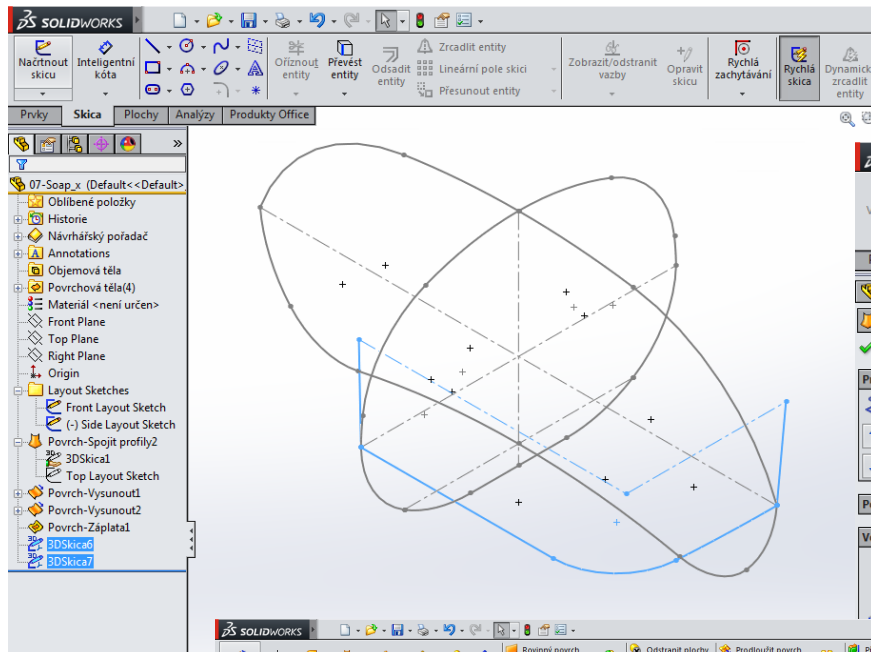
: 07-Soap.SLDPRT

Lekce 7: Záplata



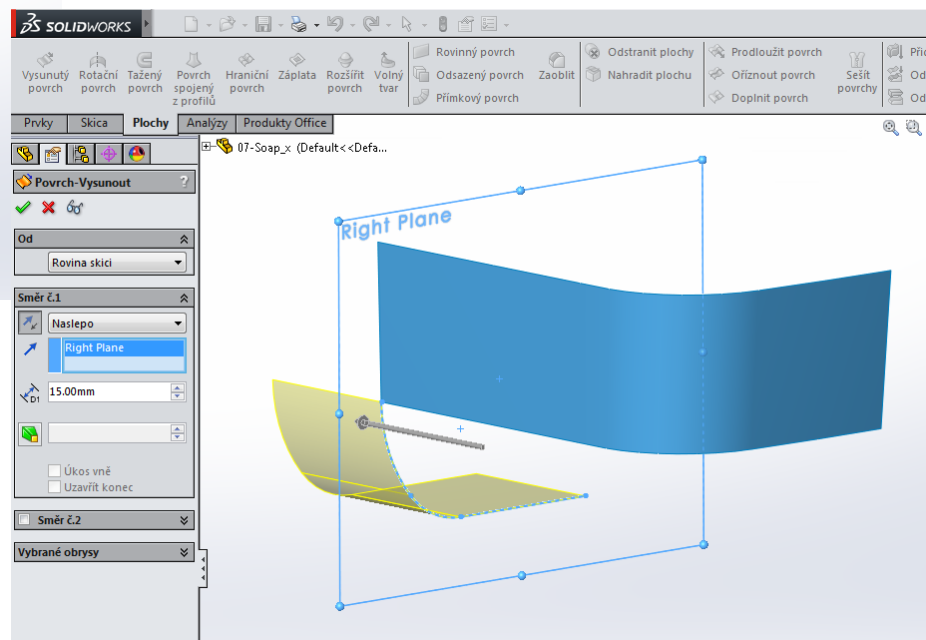
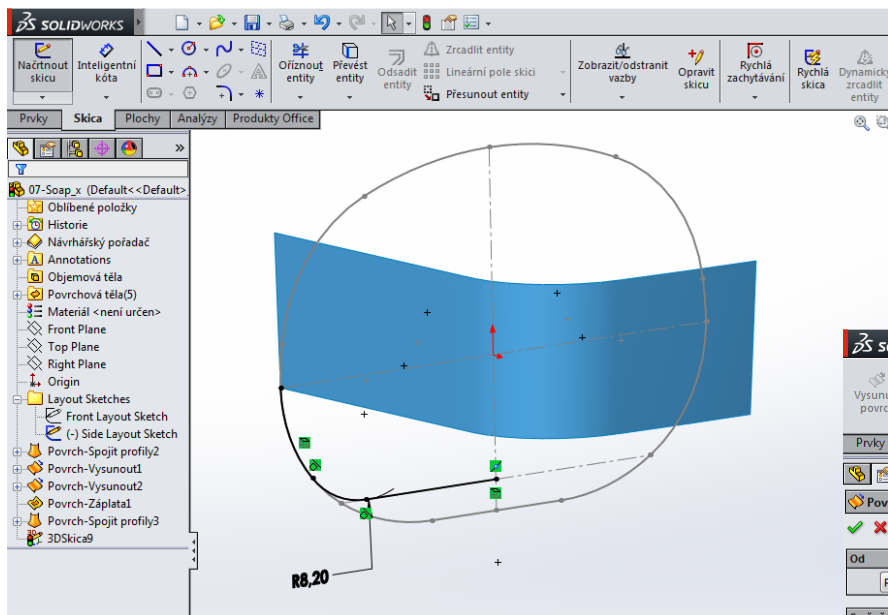
: 07-Soap.SLDPRT

Lekce 7: Povrch spojený z profilů



: 07-Soap.SLDPRT

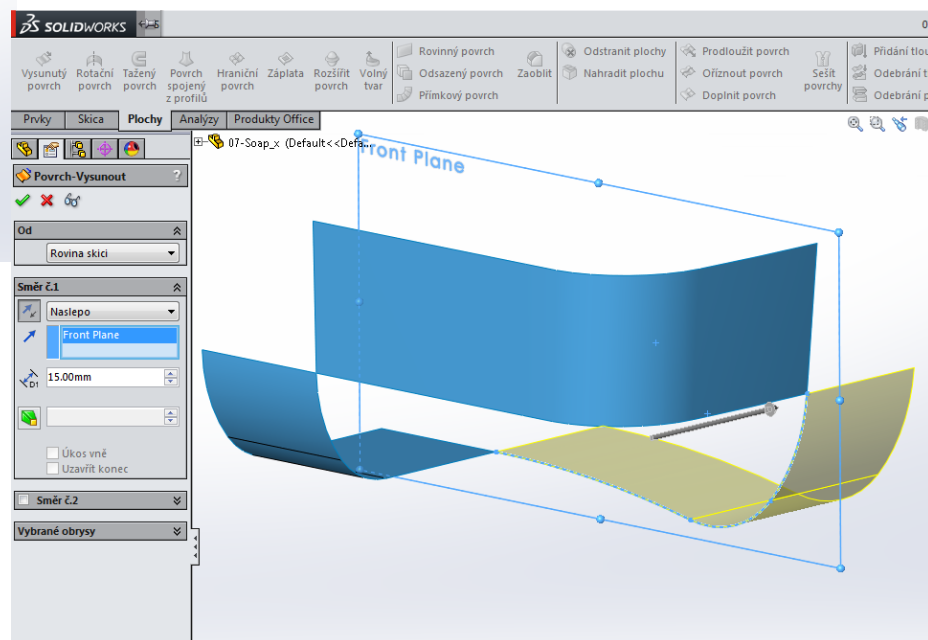
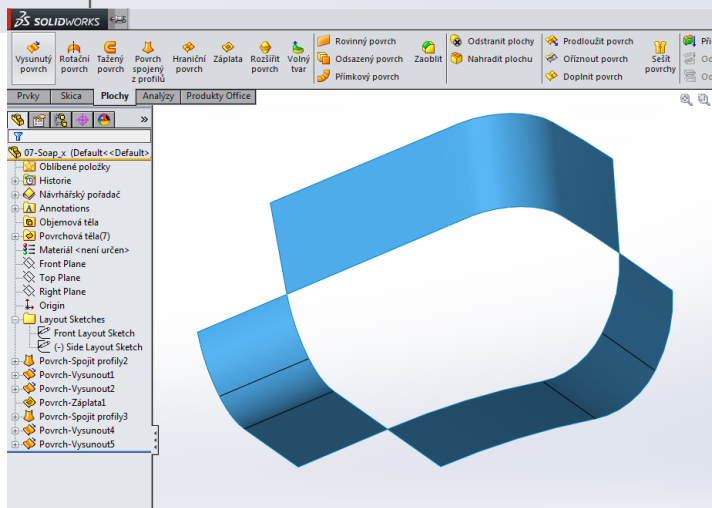
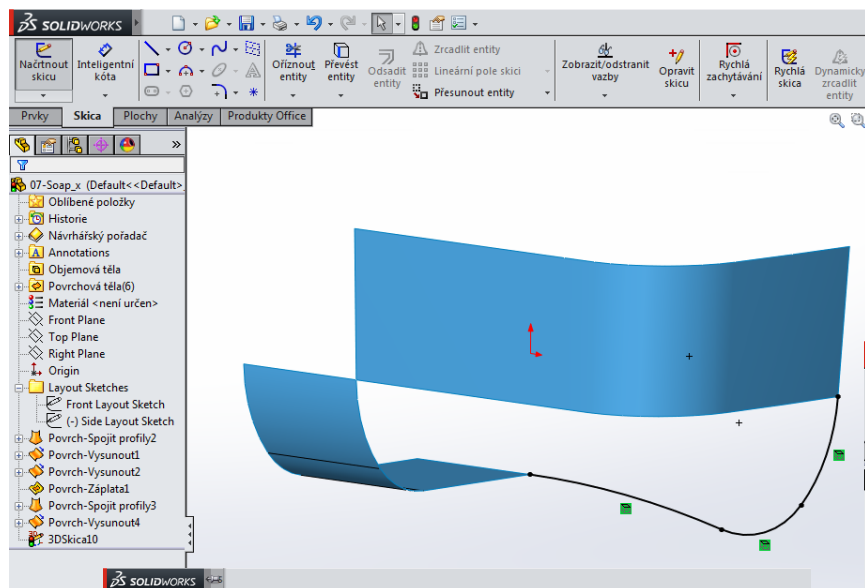
Lekce 7: Vysunutý povrch



: 07-Soap.SLDPRT

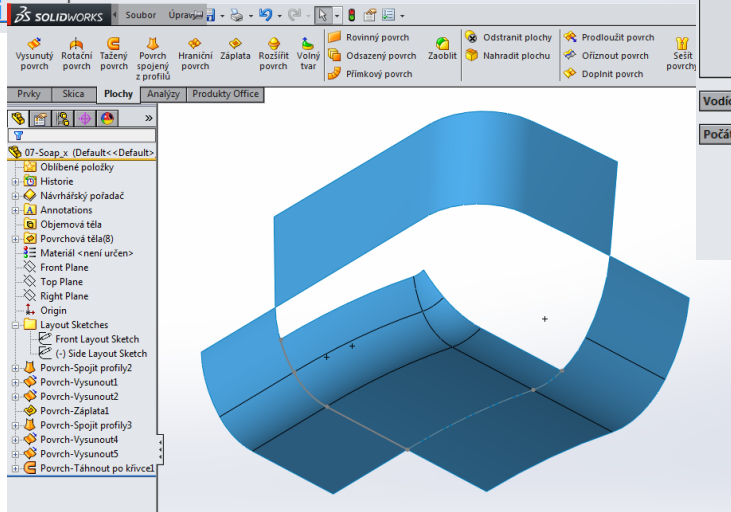
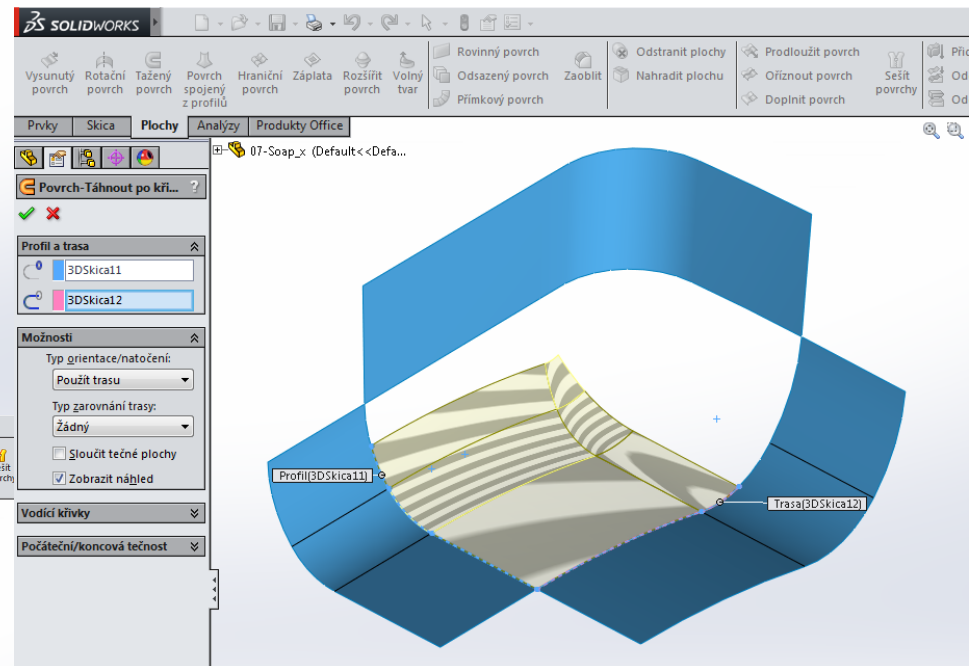
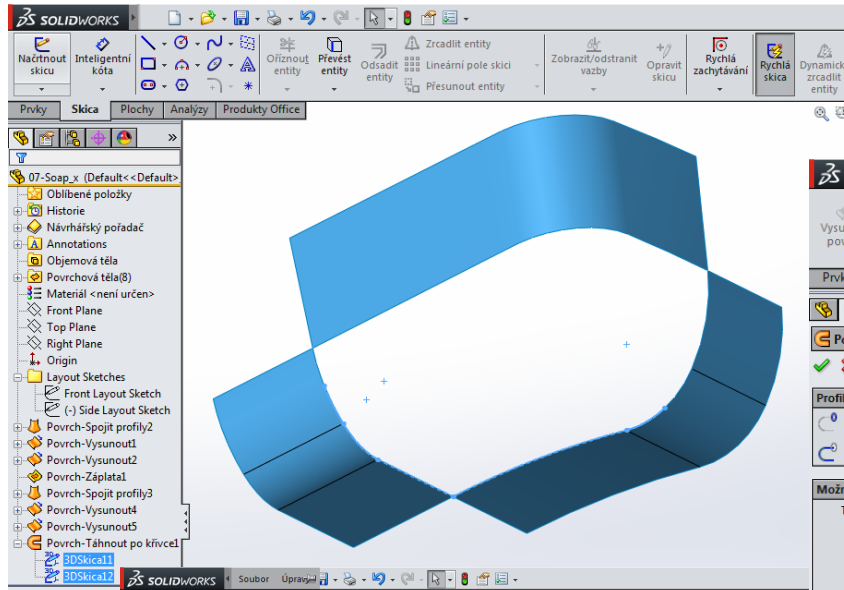


Lekce 7: Vysunutý povrch



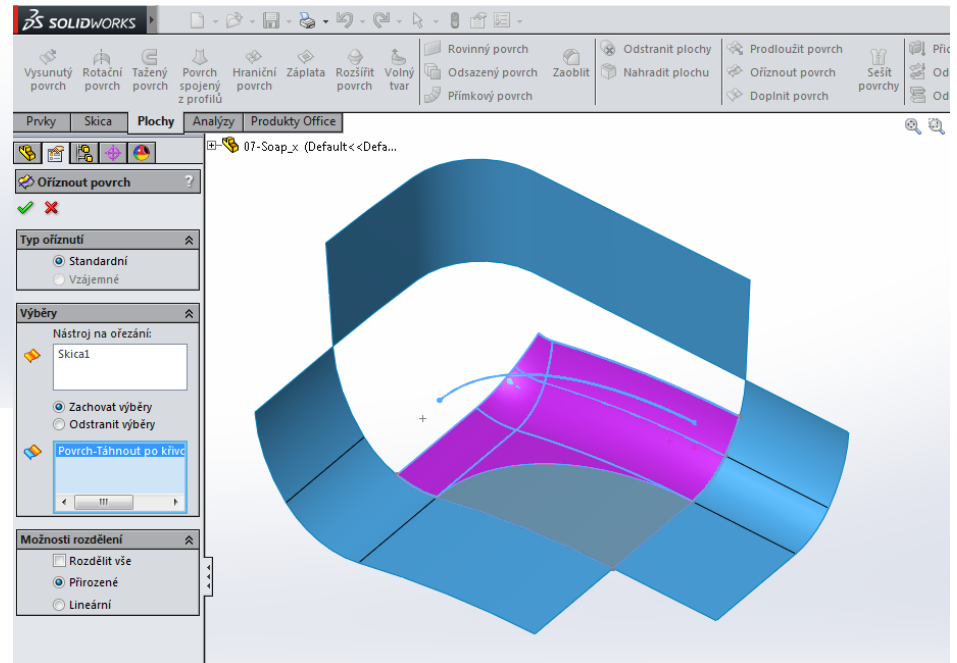
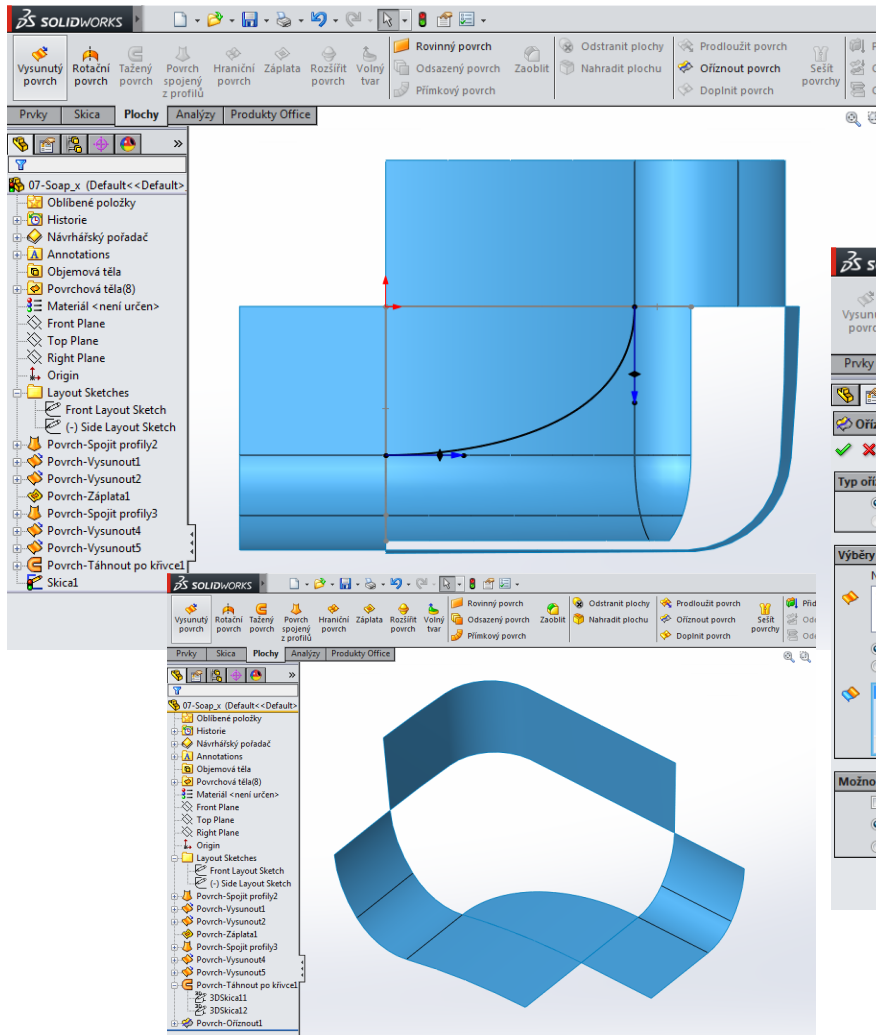
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Lekce 7: Tažený povrch



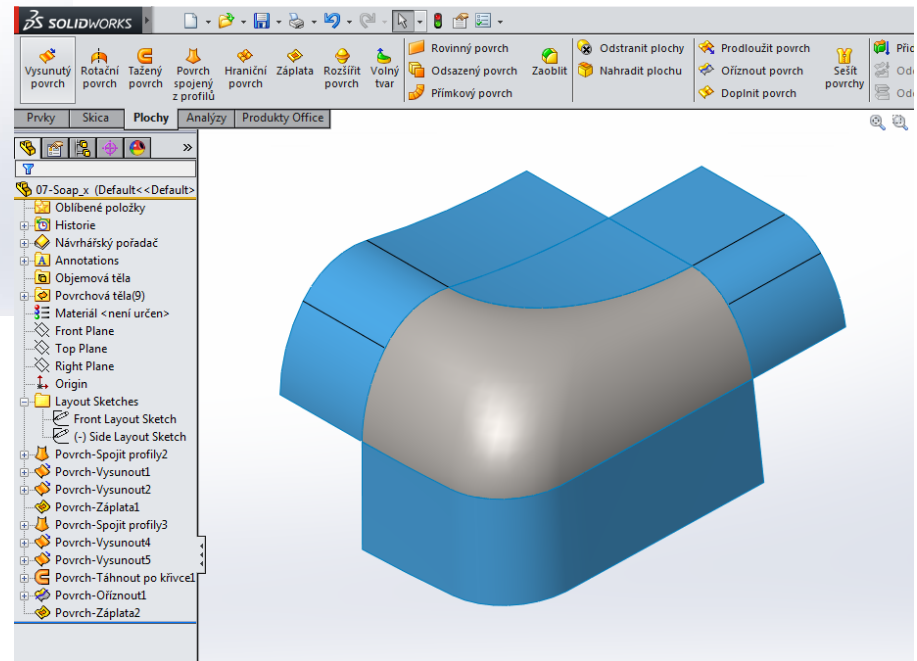
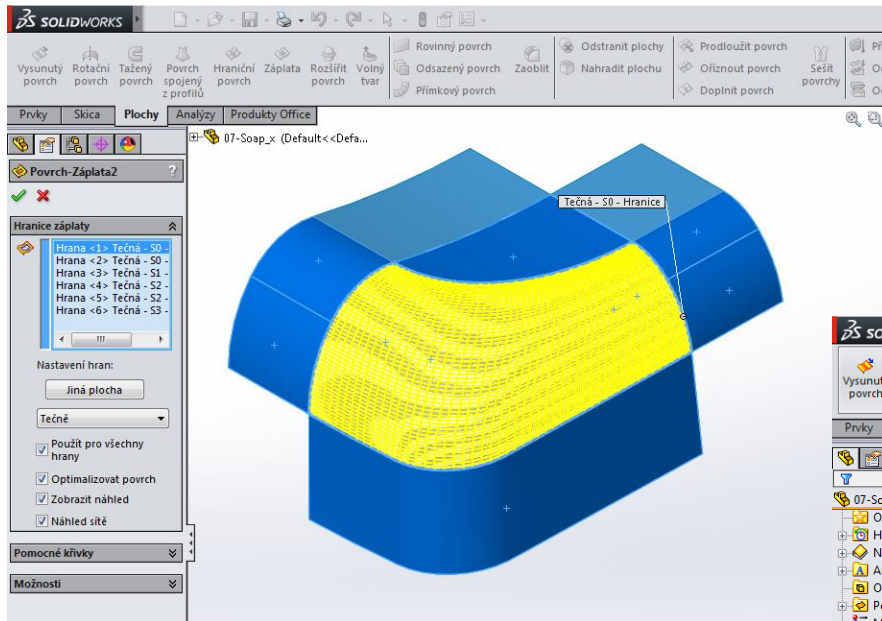
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Lekce 7: Oříznout povrchy



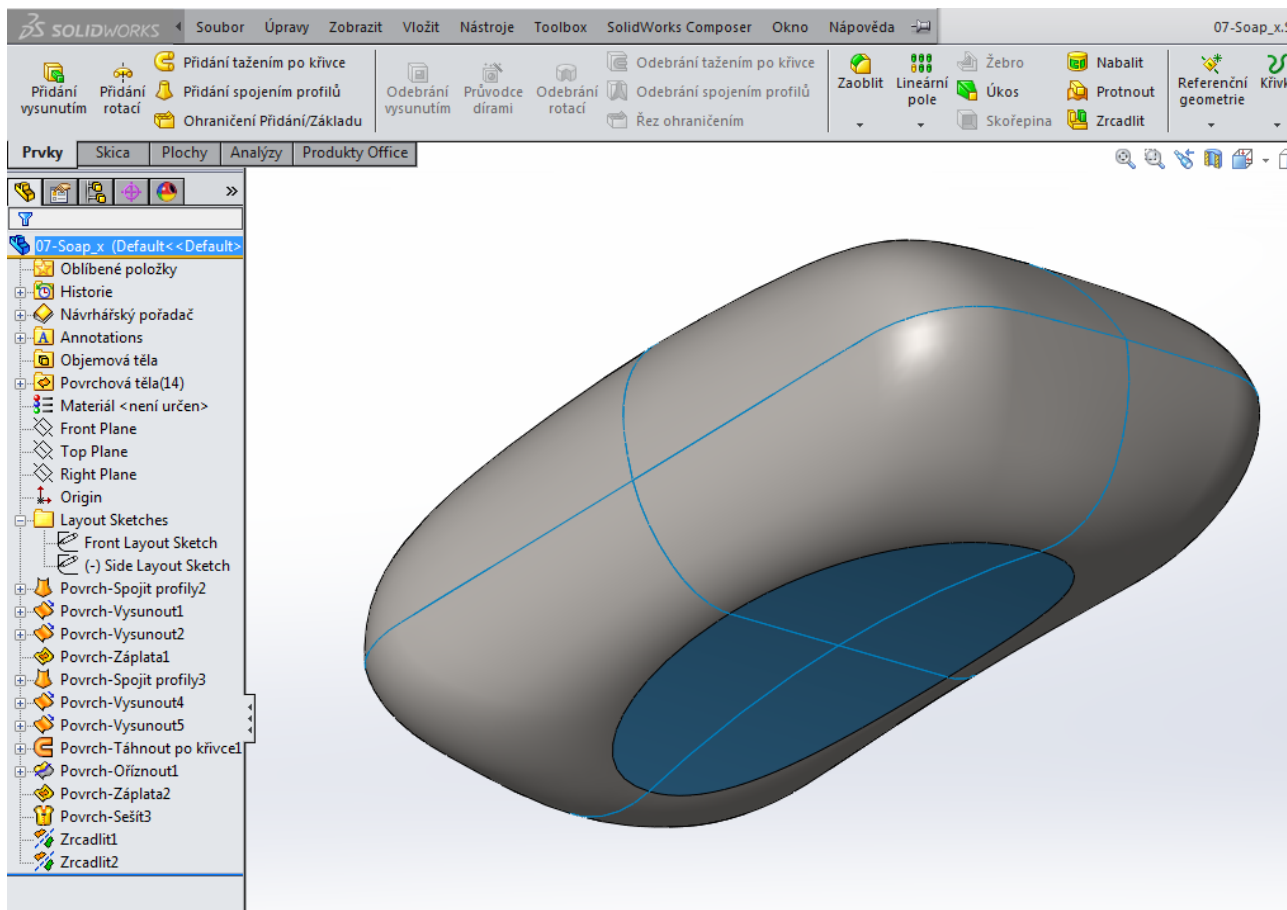
: 07-Soap.SLDPRT

Lekce 7: Záplata



: 07-Soap.SLDPRT

Lekce 7: Zrcadlit



: 07-Soap.SLDPRT

Závěr

