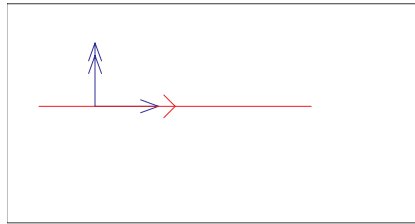
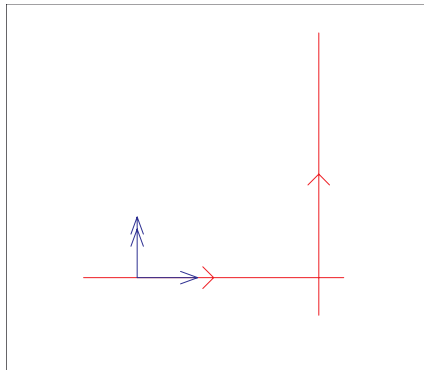


Oef1

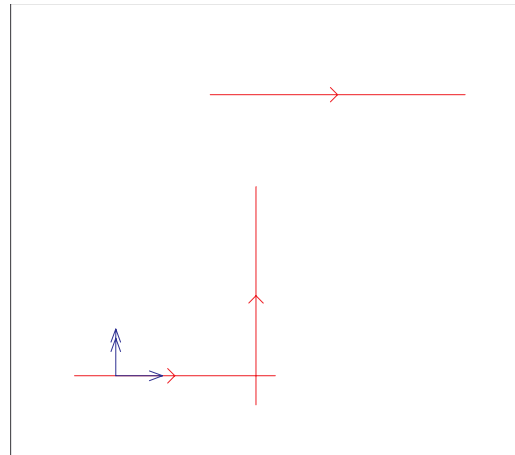
Teken->Lijn->Schets



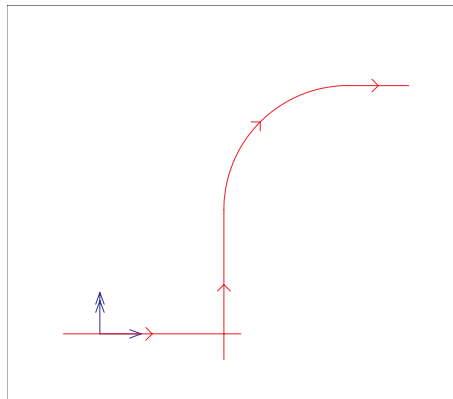
Teken->Lijn->Schets



Teken->Lijn->Schets



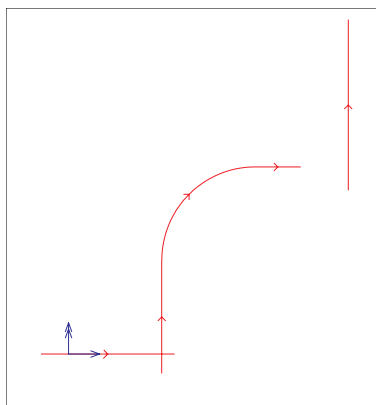
Teken->Boog->Afronding



Teken->Lijn->Schets

Lijn uitlijnen met Assen

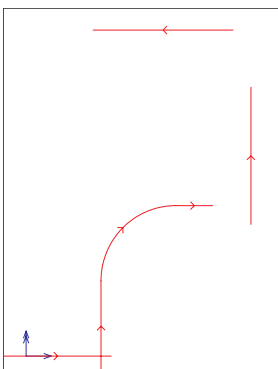
Coördinaten		OK
X	30+60	Annuleren
Y1	52.501	
Y2	107.184	
Z	0	



Teken->Lijn->Schets

Lijn uitlijnen met Assen

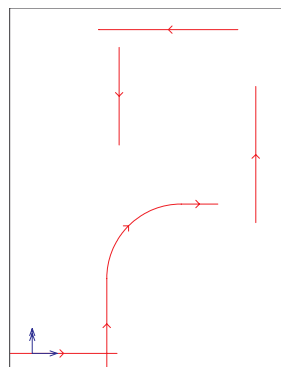
Coördinaten		OK
Y	130	Annuleren
X1	85.932	
X2	19.907	
Z	0	



Teken->Lijn->Schets

Lijn uitlijnen met Assen

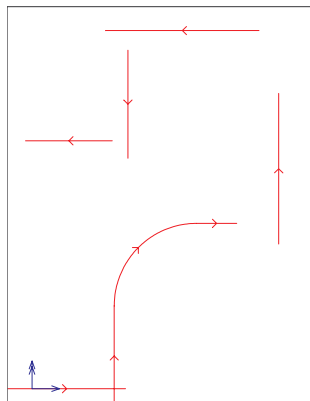
Coördinaten		OK
X	90.55	Annuleren
Y1	122.865	
Y2	83.68	
Z	0	



Teken->Lijn->Schets

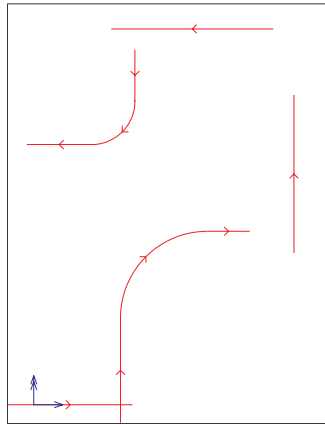
Lijn uitlijnen met Assen

Coördinaten		OK
Y	90	Annuleren
X1	29.301	
X2	-2.369	
Z	0	

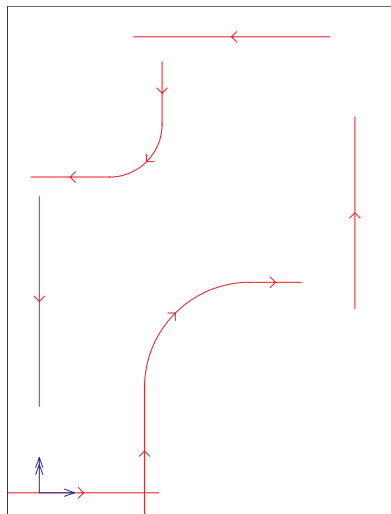




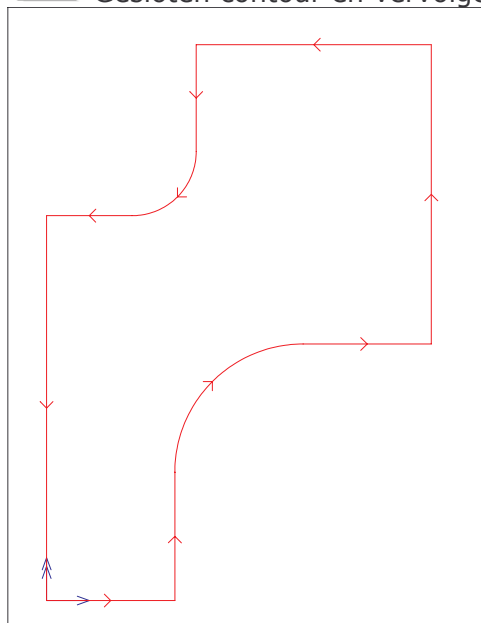
Teken->Boog->Afronding



Teken->Lijn->Schets



Gesloten contour en vervolgens

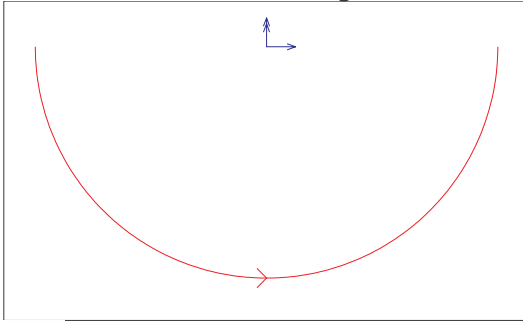


Wijzigen->Trim en Verleng->Ketting:

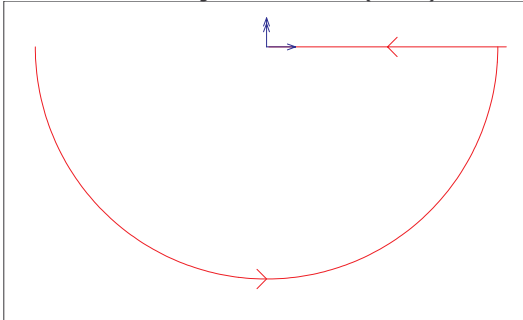
Oef2



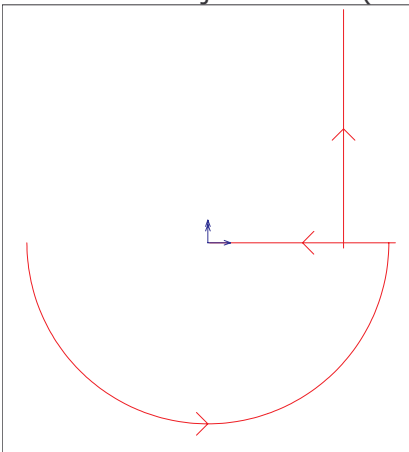
Teken->Cirkel->Boog met coördinaten (0,0) R=80



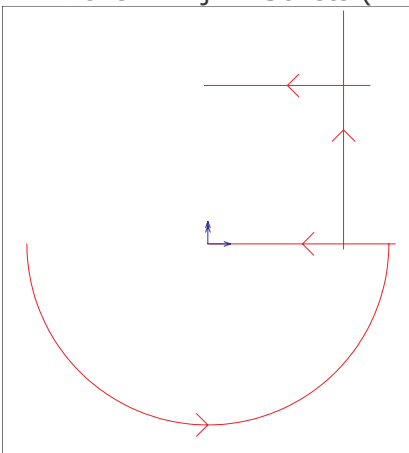
Teken->Lijn->Schets (Y=0)



Teken->Lijn->Schets (X=60)

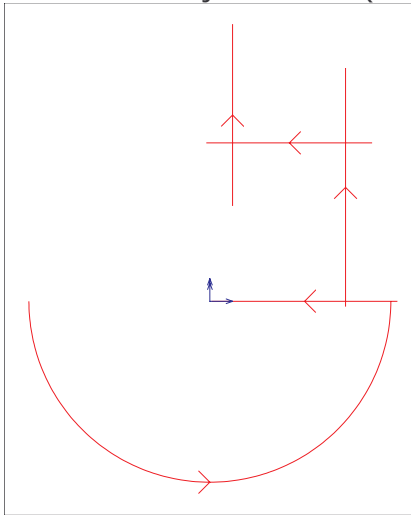


Teken->Lijn->Schets (Y=70)

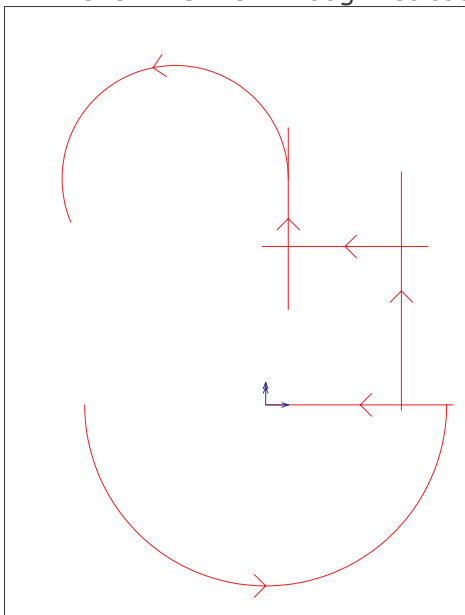




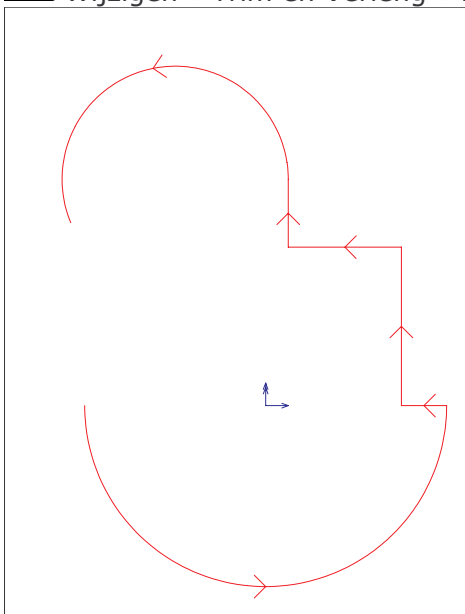
Teken->Lijn->Schets (X=10)



Teken->Cirkel->Boog met coördinaten (-40,100) R=50

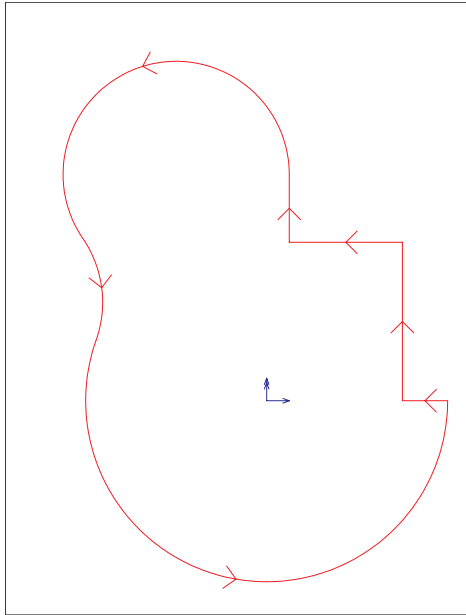


Wijzigen->Trim en Verleng->Ketting





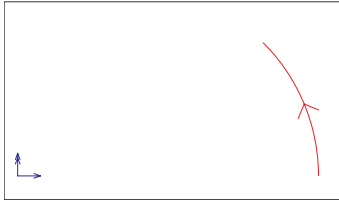
Gesloten contour en dan Teken->Boog->Afronden R=50



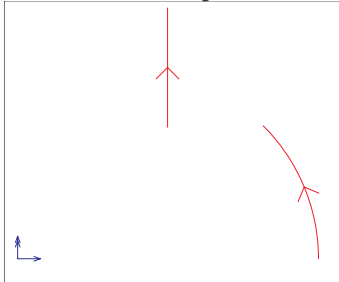
Oef3



Teken->Cirkel->Boog met coördinaten (-50,0) R=83



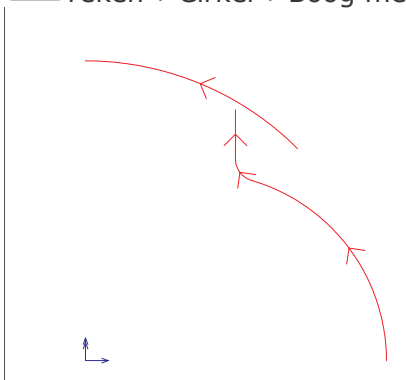
Teken->Lijn->Schets (X=66.25)



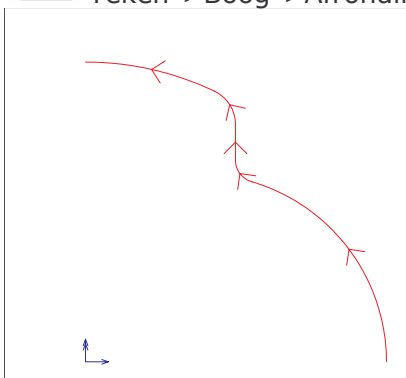
Teken->Boog->Afronding R=10



Teken->Cirkel->Boog met coördinaten (0,0) R=132.5

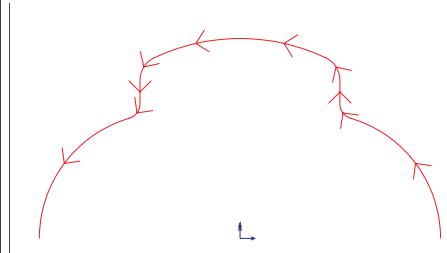


Teken->Boog->Afronding R=16.25

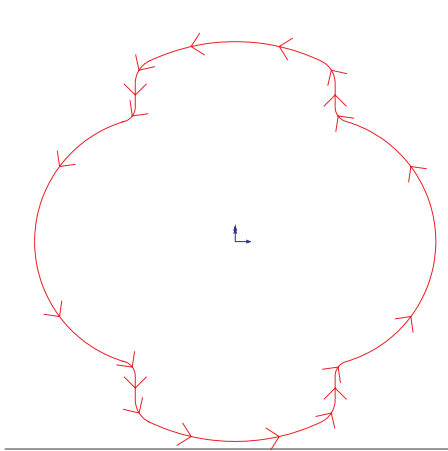




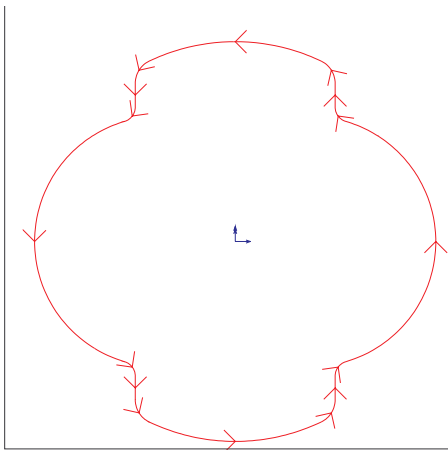
Bewerken Kopiëren en Plakken (Spiegel X-waarden)



Opnieuw: Bewerken Kopiëren en Plakken maar nu Spiegel Y-waarden



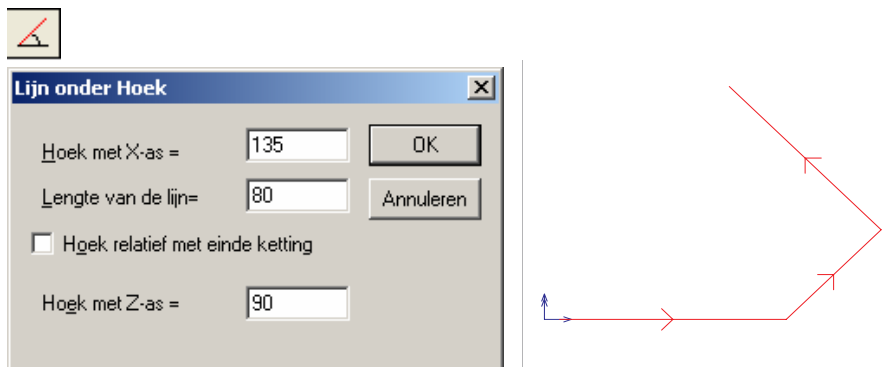
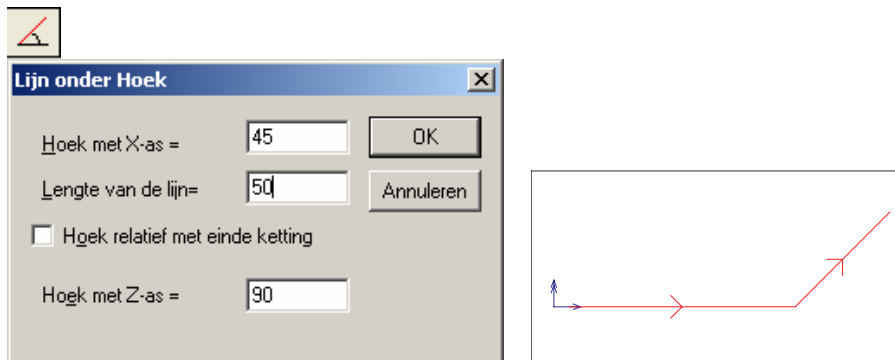
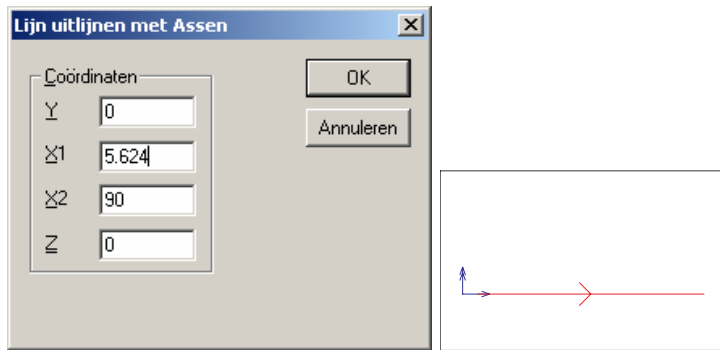
Wijzigen->Reorganiseren->Reduceren en optimaliseren




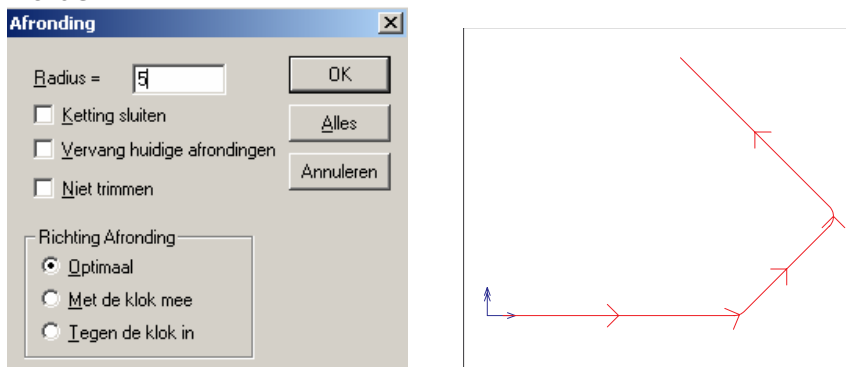
Alle (overbodige) elementen die in elkaars verlengde liggen worden gereduceerd tot één element

Oef4

 Teken->Lijn->Schets (Y=0) en X2=90!



 Teken->Boog->Afronding R=5 en druk op **Alles** zodat allebei de hoeken afgerond worden.





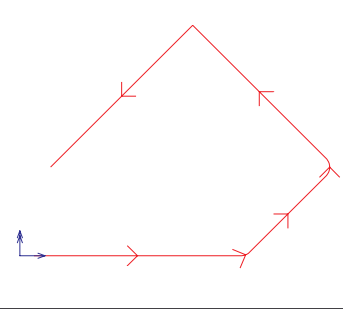
Lijn onder Hoek

Hoek met X-as =

Lengte van de lijn =

Hoek relatief met einde ketting

Hoek met Z-as =



Teken->Boog->Afronding R=15

Afronding

Radius =

Ketting sluiten

Vervang huidige afrondingen

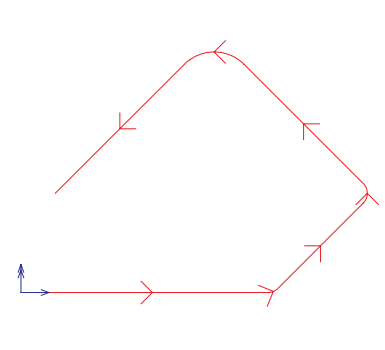
Niet trimmen

Richting Afronding

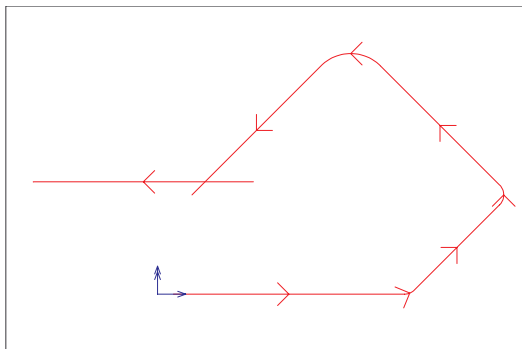
Optimaal

Met de klok mee

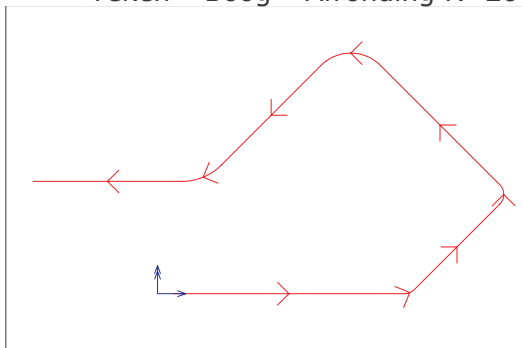
Tegen de klok in



Teken->Lijn->Schets (Y=40)

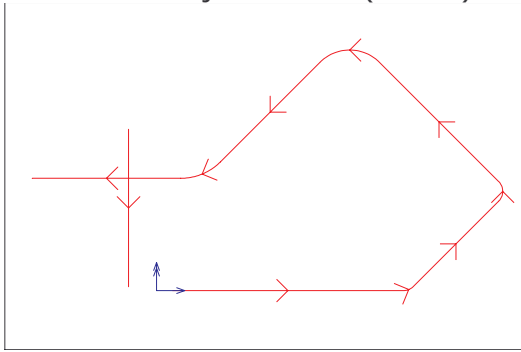


Teken->Boog->Afronding R=20

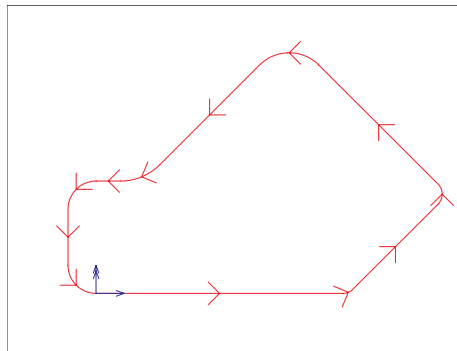




Teken->Lijn->Schets (X=-10)



Teken->Boog->Afronding R=10, *Ketting Sluiten* en op **Alles**



Oef5

Boog met Coördinaten

Coördinaten
X: 0
Y: 53
Z: 0

Radius = 7

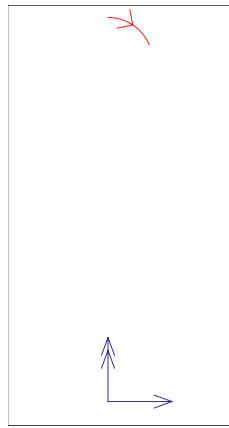

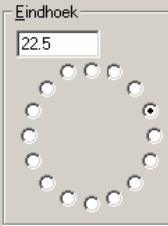
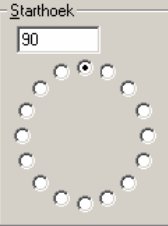
Boog met de klok mee

Starthoek: 90
Eindhoek: 22.5

3D

Voorbeeld:

OK
Herhalen
Annuleren
Reset



Lijn onder Hoek

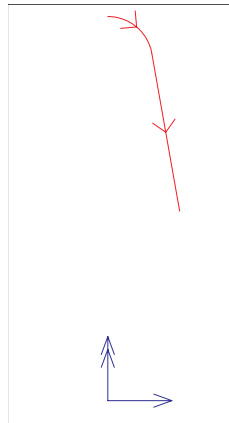
Hoek met X-as = -80

Langte van de lijn = 25

Hoek relatief met einde ketting

Hoek met Z-as = 90

OK
Annuleren



Boog met Coördinaten

Coördinaten
X: 0
Y: 0
Z: 0

Radius = 25

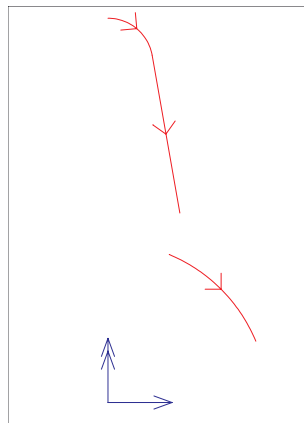

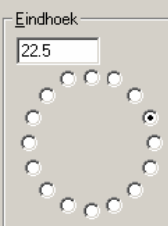
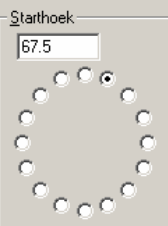
Boog met de klok mee

Starthoek: 67.5
Eindhoek: 22.5

3D

Voorbeeld:

OK
Herhalen
Annuleren
Reset



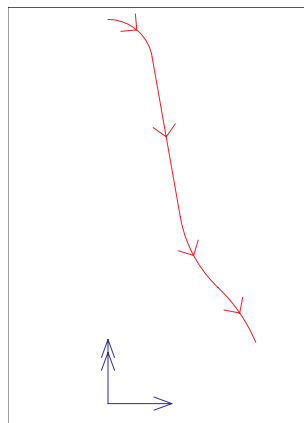
Afronding

Radius = 20

Ketting sluiten
 Vervang huidige afrondingen
 Niet trimmen

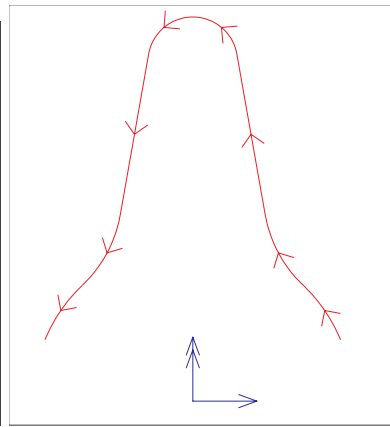
Richting Afronding
 Optimaal
 Met de klok mee
 Tegen de klok in

OK
Alles
Annuleren

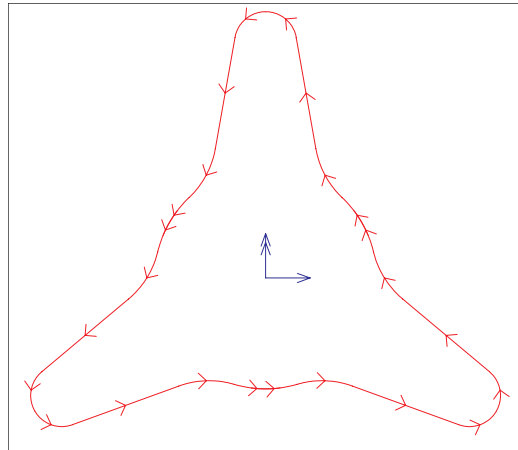


Speciaal -> Omkeren

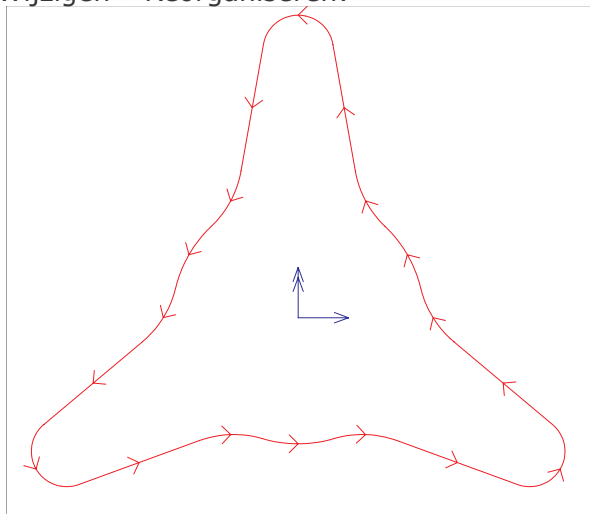
Bewerken -> Kopiëren -> Plakken



Bewerken -> Kopieren -> Plakken (2 kopieën, 240 graden)



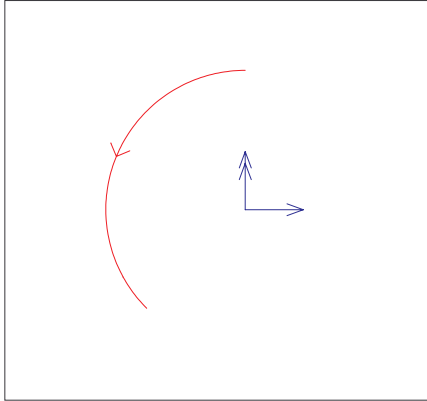
Wijzigen->Reorganiseren:



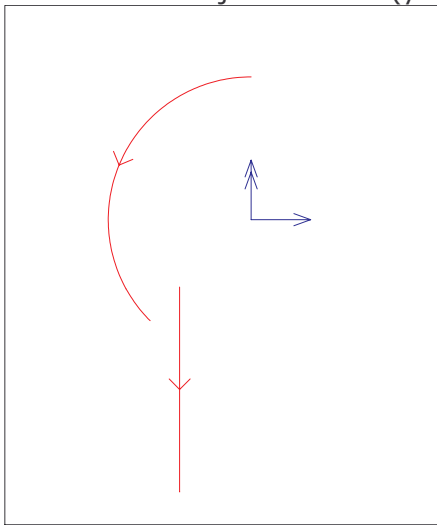
Oef 9



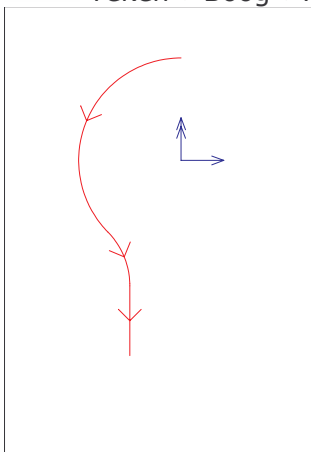
Teken->Boog->Coördinaten (0,0) R=24



Teken->Lijn->Schets: (y=-12)

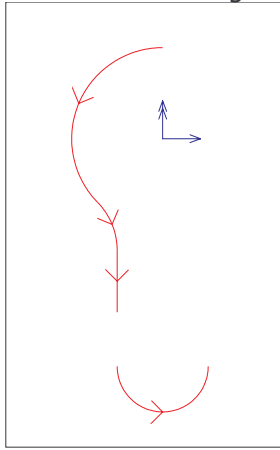


Teken->Boog->Afronding R=18

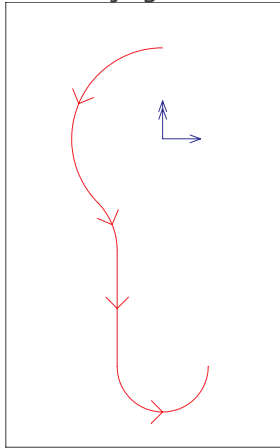




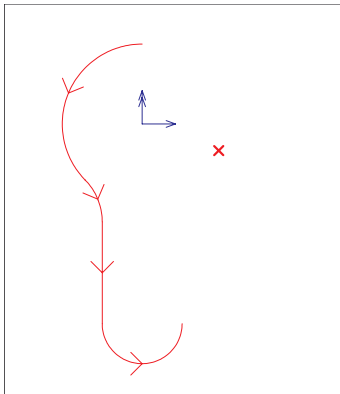
Teken->Boog->Coördinaten (-60,0) R=12



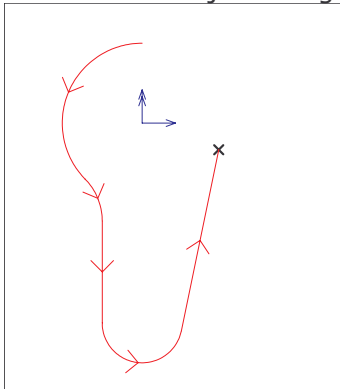
Wijzigen->Trim en Verleng->Ketting



Teken->Punt->Coördinaten (X=23, Y=-8)

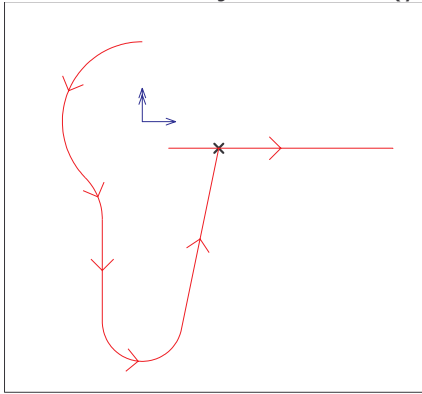


Teken->Lijn->Tangentieel

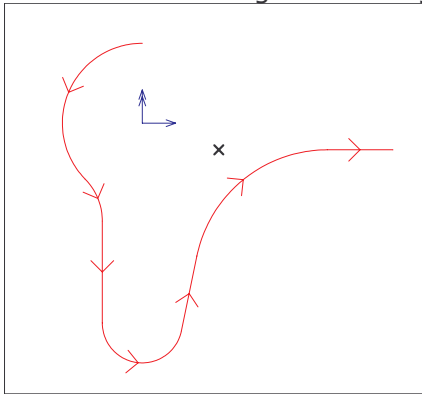




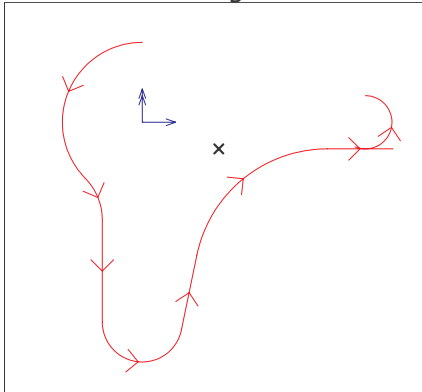
Teken->Lijn->Schets: ($y=-8$)



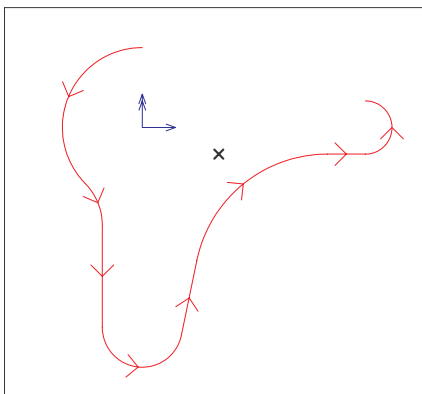
Teken->Boog->Afronding $R=40$

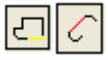


Teken->Boog->Coördinaten ($67,0$) $R=8$

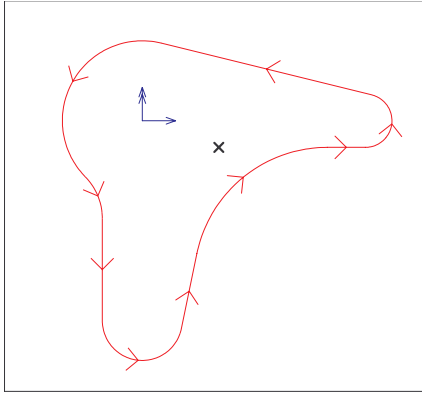


Wijzigen->Trim en Verleng->Ketting

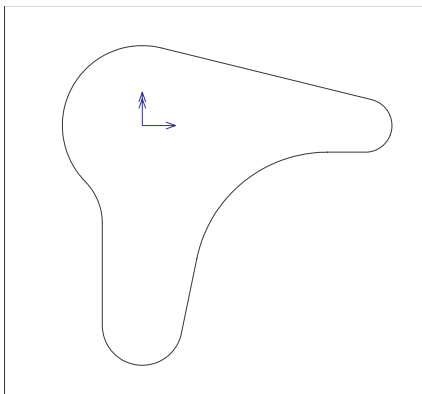




Speciaal Gesloten contour / Teken->Lijn->Tangentieel



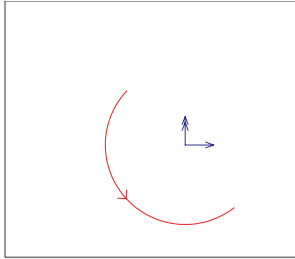
Selecteer het punt en druk op DEL-knop



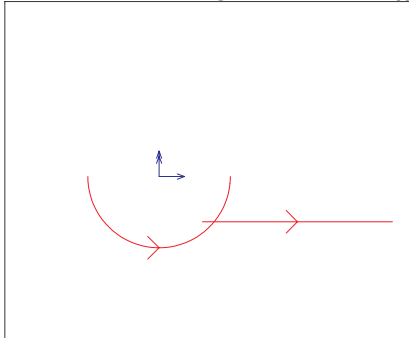
Oef 10



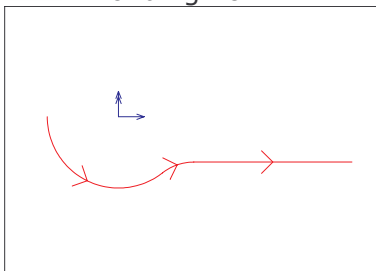
Teken->Cirkel->Boog met coördinaten (0,0) R=28



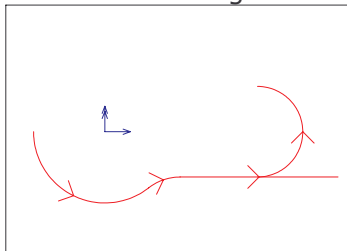
Teken->Lijn->Schets: (y=-17.8)



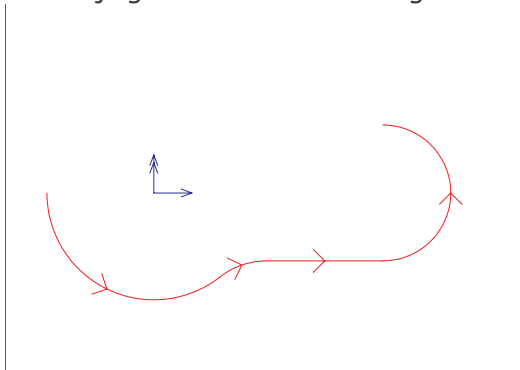
Afronding 20



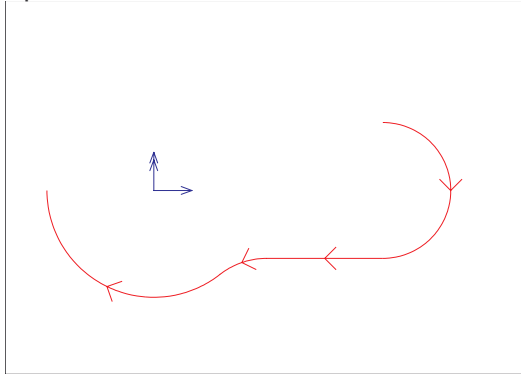
Teken->Boog->Coördinaten (60,0) R=17,9



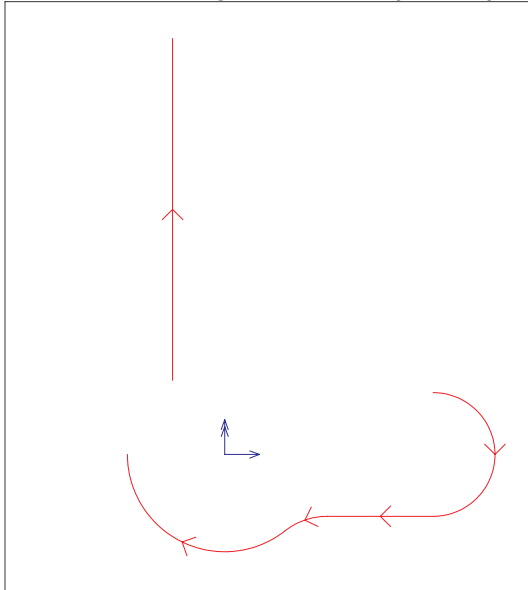
Wijzigen->Trim en Verleng->Ketting



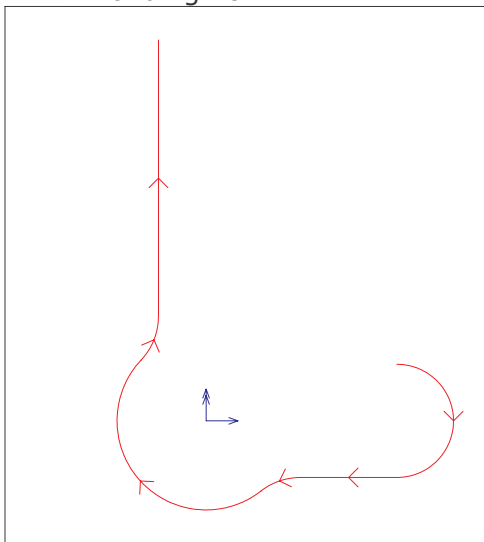
Speciaal ->Omkeren



Teken->Lijn->Schets: (x=-15)

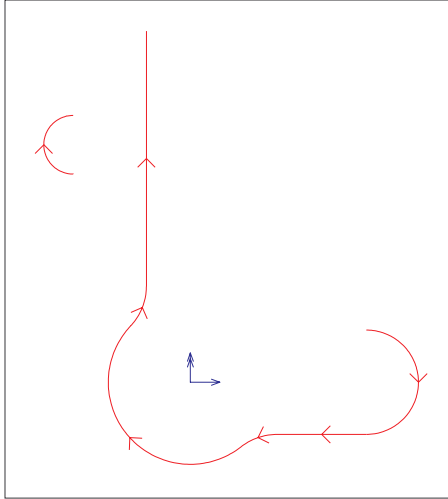


Afronding 20

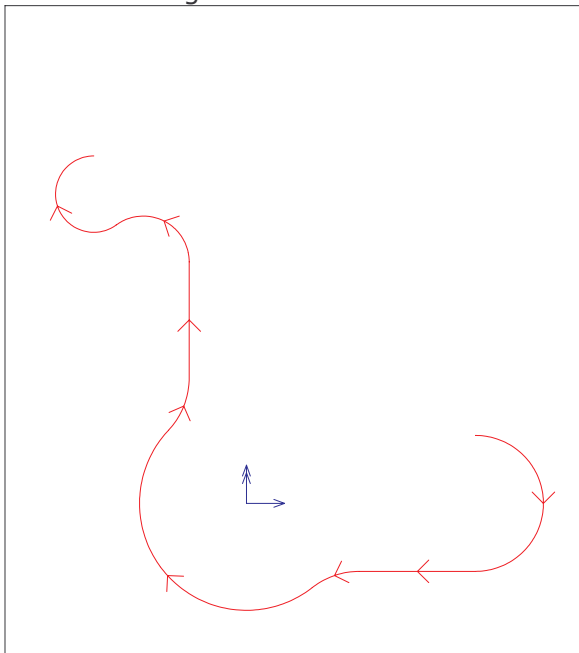




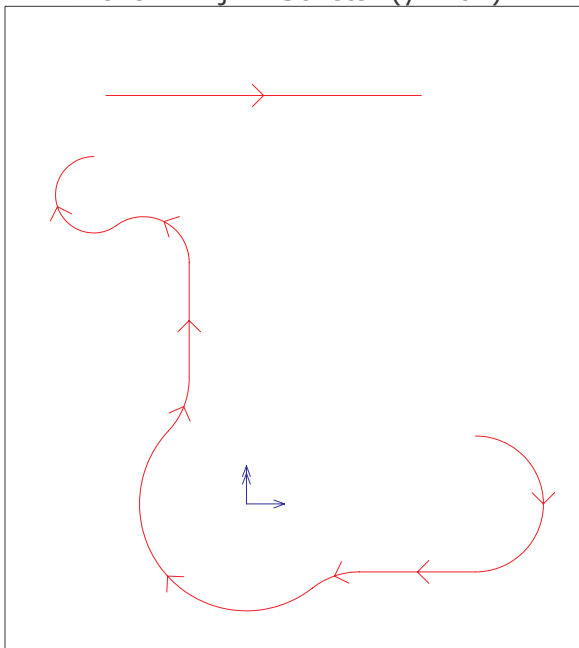
Teken->Boog->Coördinaten (-40,81) R=10



Afronding 12

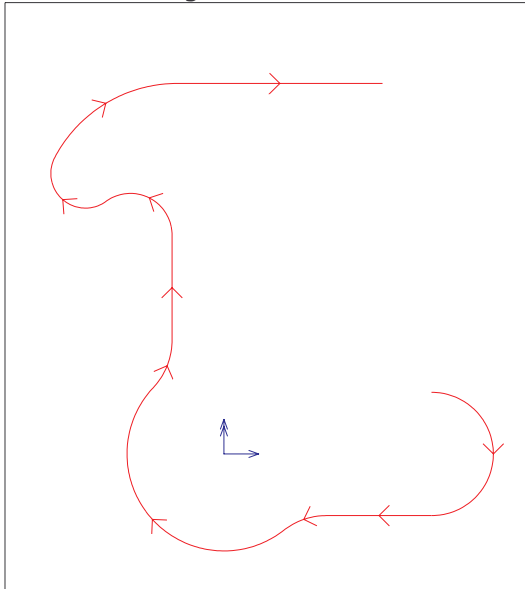


Teken->Lijn->Schets: (y=107)

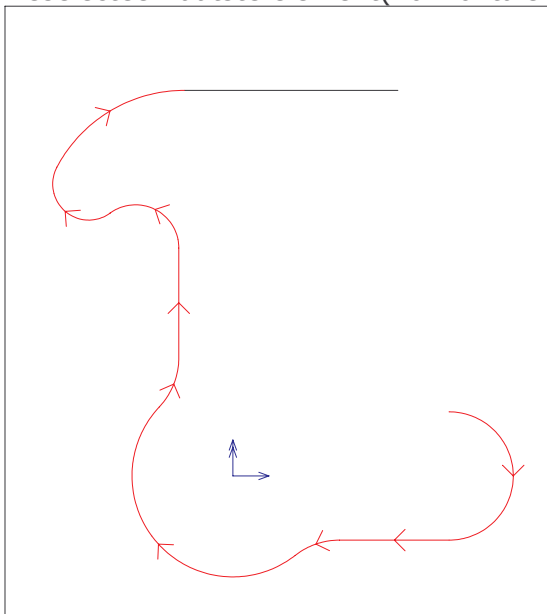




Afronding 40

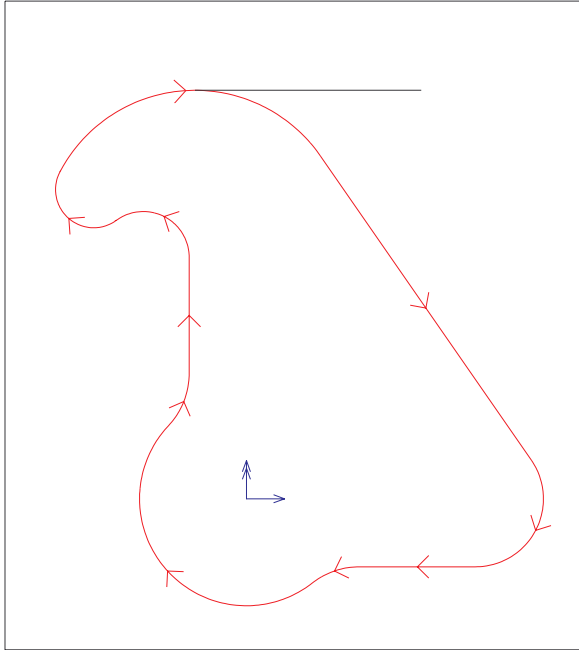


Deselecteer laatste element(horizontale lijn) met linkermuistoets en CTRL-toets

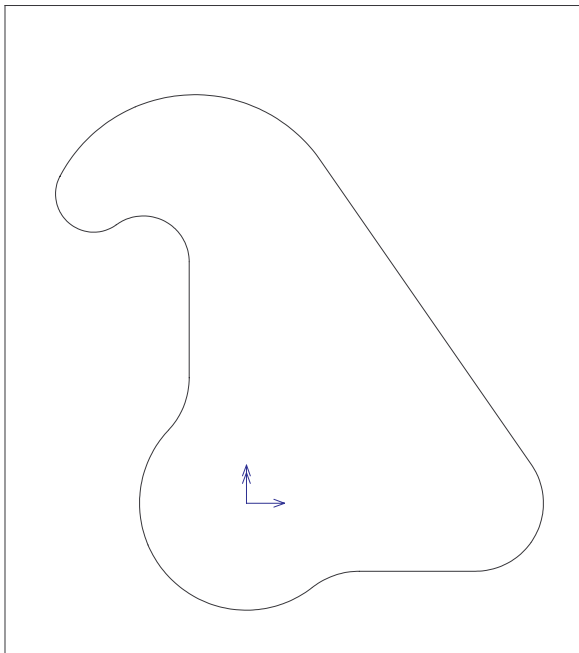





Speciaal Gesloten contour / Teken->Lijn->Tangentieel

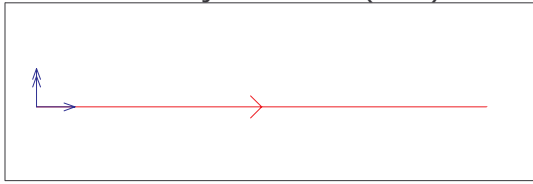



Selecteer alleen lijn rechtsboven en klik op DEL-knop.

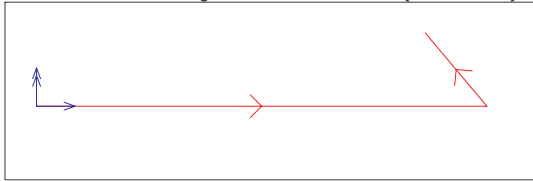


Oef11

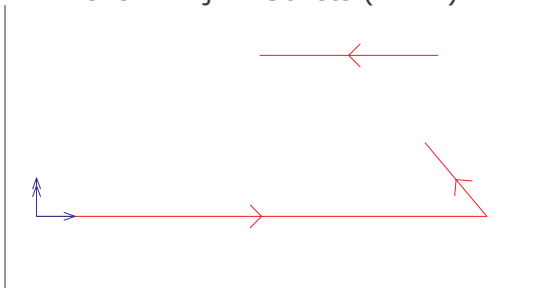
 Teken->Lijn->Schets (Y=0) en X2=117.5 (235/2)




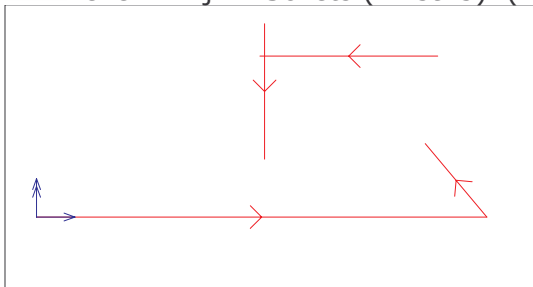
 Teken->Lijn->Hoek 130 (180-50)



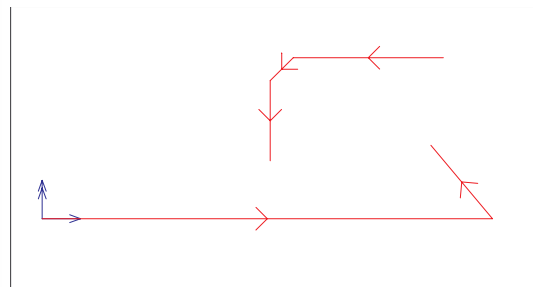
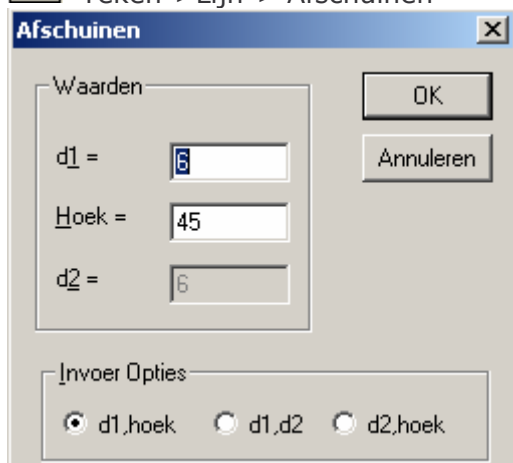
 Teken->Lijn->Schets (Y=42)



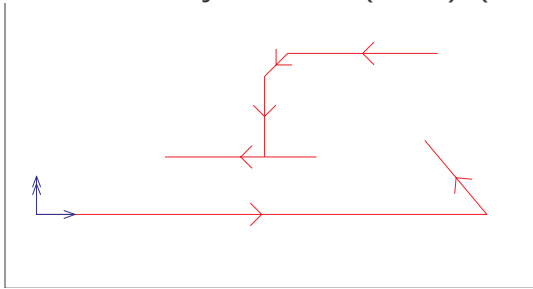
 Teken->Lijn->Schets (X=59.5) (117.5 - 77+ 38/2)



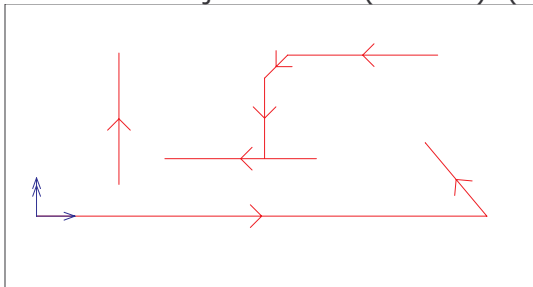
 Teken->Lijn-> Afschuinen




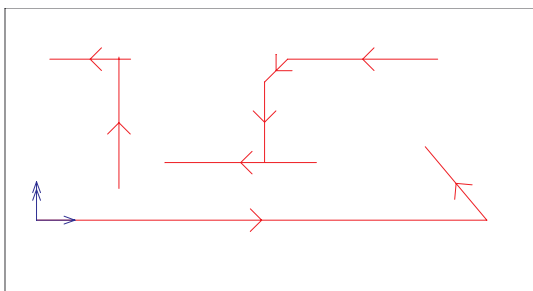
 Teken->Lijn->Schets (Y=15) (42-27)



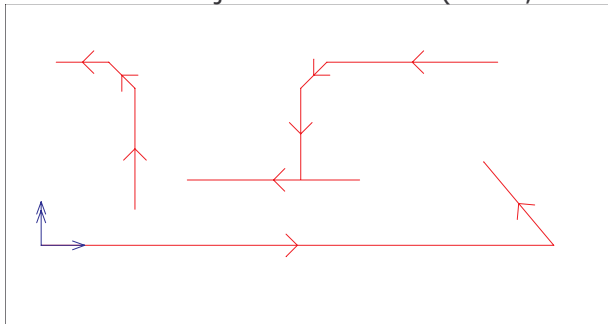
 Teken->Lijn->Schets (X=21.5) (117.5-77-19)




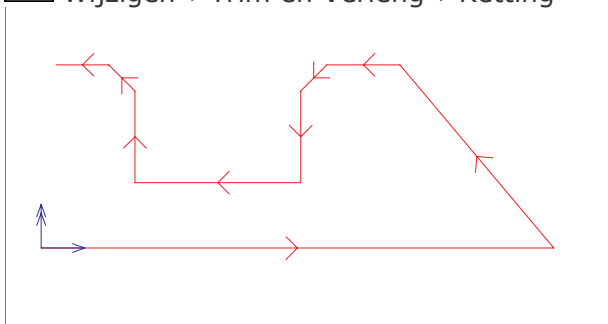
 Teken->Lijn->Schets (Y=42)



 Teken->Lijn-> Afschuinen (d1=6, Hoek=45)

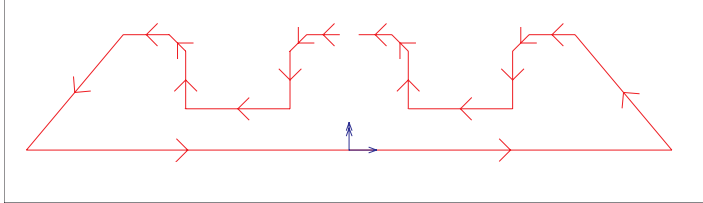


 Wijzigen->Trim en Verleng->Ketting





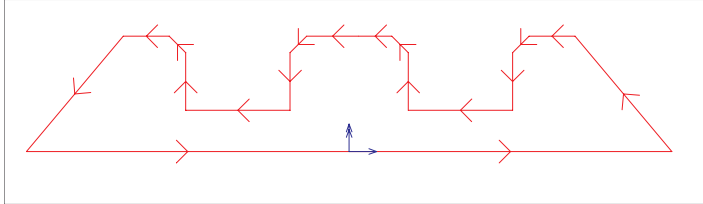
Bewerken Kopiëren en Plakken (Spiegel X-waarden)



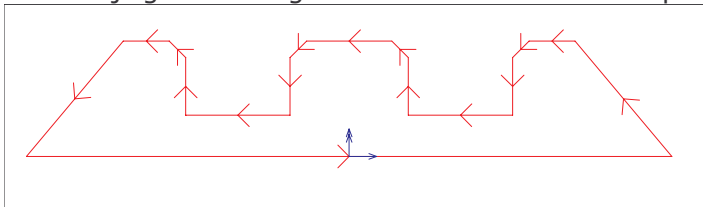
Gesloten contour en vervolgens



Wijzigen->Trim en Verleng->Ketting:

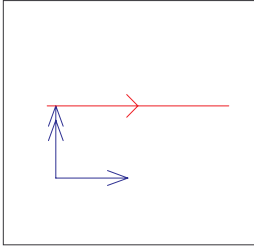


Wijzigen->Reorganiseren->Reduceren en optimaliseren

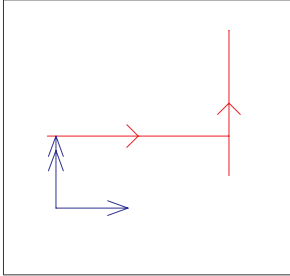


Oef13

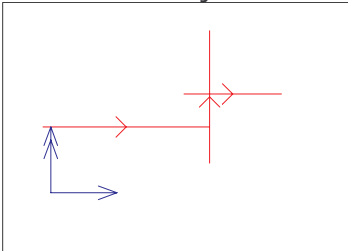
 Teken->Lijn->Schets (Y=10)




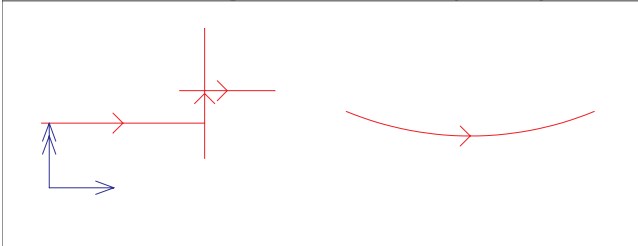
 Teken->Lijn->Schets (X=24)




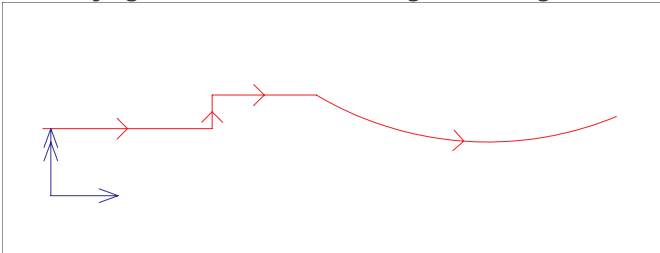
 Teken->Lijn->Schets (Y=15)




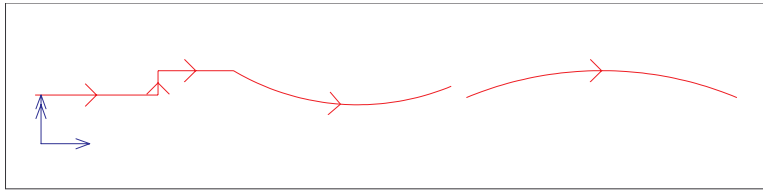
 Teken->Boog->Coördinaten (65,58) R=50 (tegen de klok in)



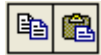
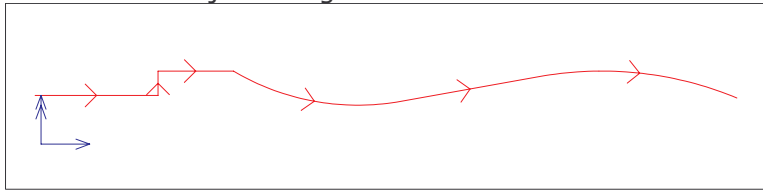
 Wijzigen->Trim en Verleng->Ketting



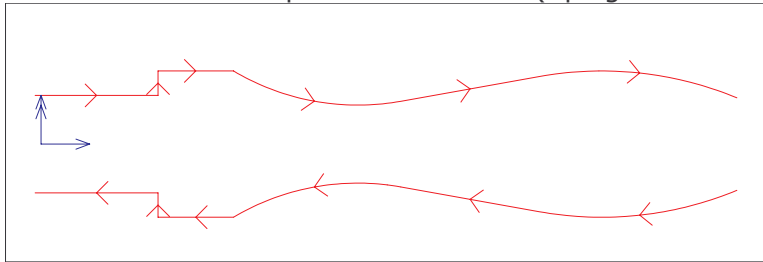
 Teken->Boog->Coördinaten (115, -57.5) R=72.5 (met de klok mee)



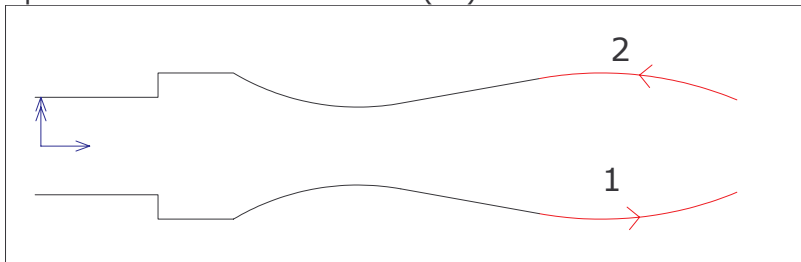
Teken-> Lijn->Tangentieel



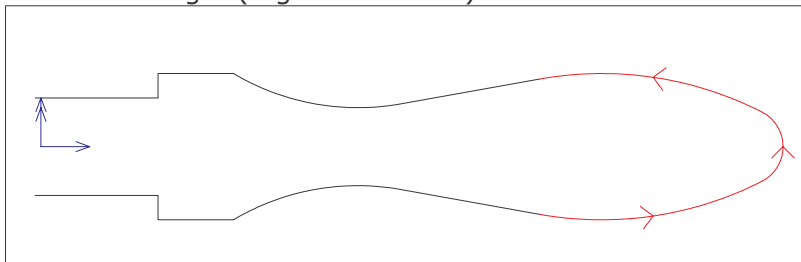
Bewerken Kopieren en Plakken (Spiegel Y-waarden)



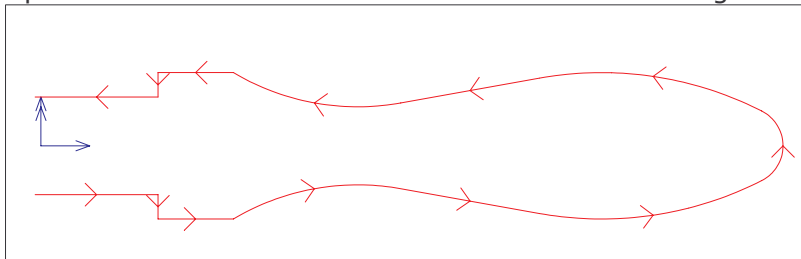
Speciaal-> Alles deselecteren (F2) en selecteer de 2 uiterste bogen



Afronding 8 (tegen de klok in)



Speciaal-> Alles deselecteren en selecteer de ketting met SHIFT en muistoets





Gesloten contour en Teken->Lijn->Verbinden

