

TEKNİK EĞİTİM FAKÜLTESİ
ANKARA BÜYÜKŞEHİR BELEDİYESİ
BELTEK MESLEK EDİNDİRME KURSU

MAKİNA EĞİTİM BÖLÜMÜ
703 CAD I
BİLGİSAYAR DESTEKLİ ÇİZİM (2 BOYUT) KURSU

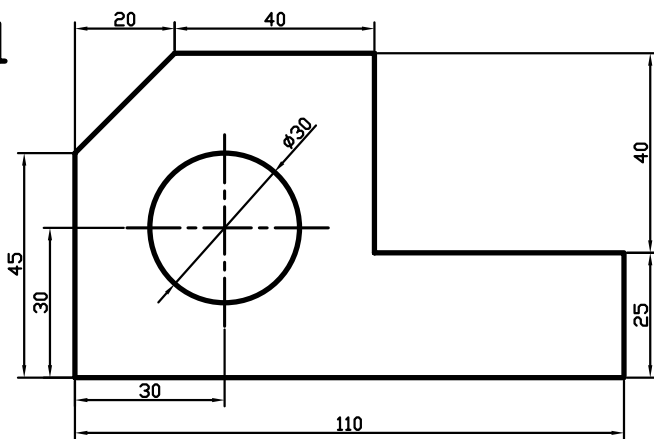
UYGULAMA ÖRNEKLERİ

Öğretim Elemanları
Prof. Dr. Ulvi ŞEKER
Arş. Gör. Abdullah KURT

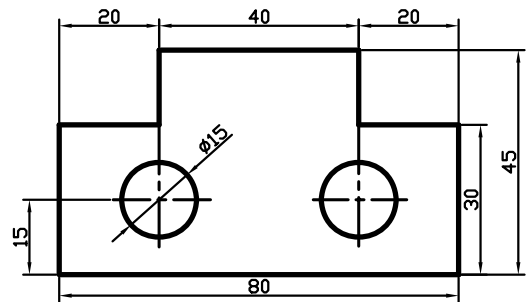
☎ : (312) 212 68 20 / 1893 (Abdullah KURT)
<http://w3.gazi.edu.tr/web/akurt>
akurt@gazi.edu.tr

2005

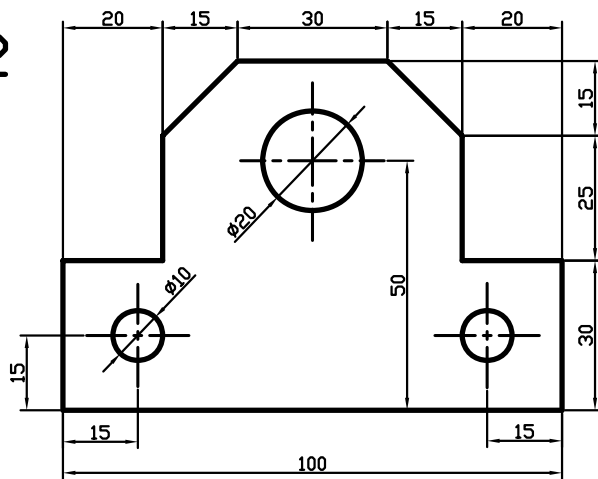
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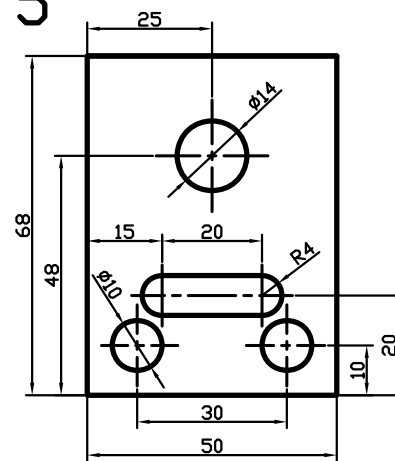
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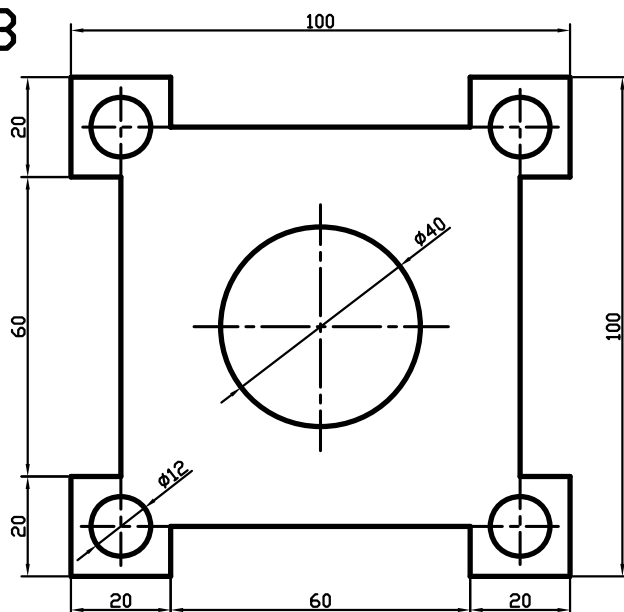
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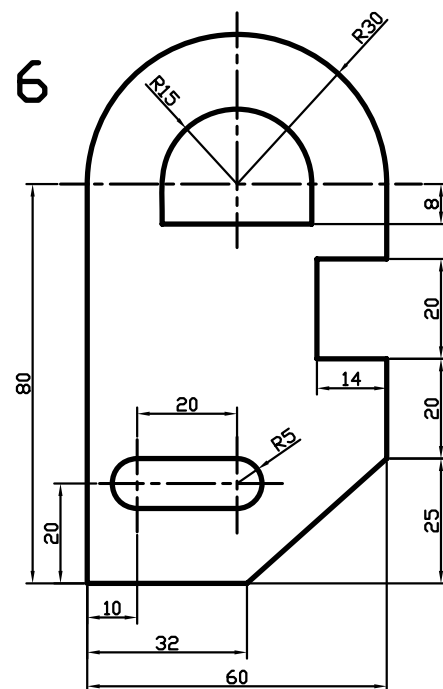
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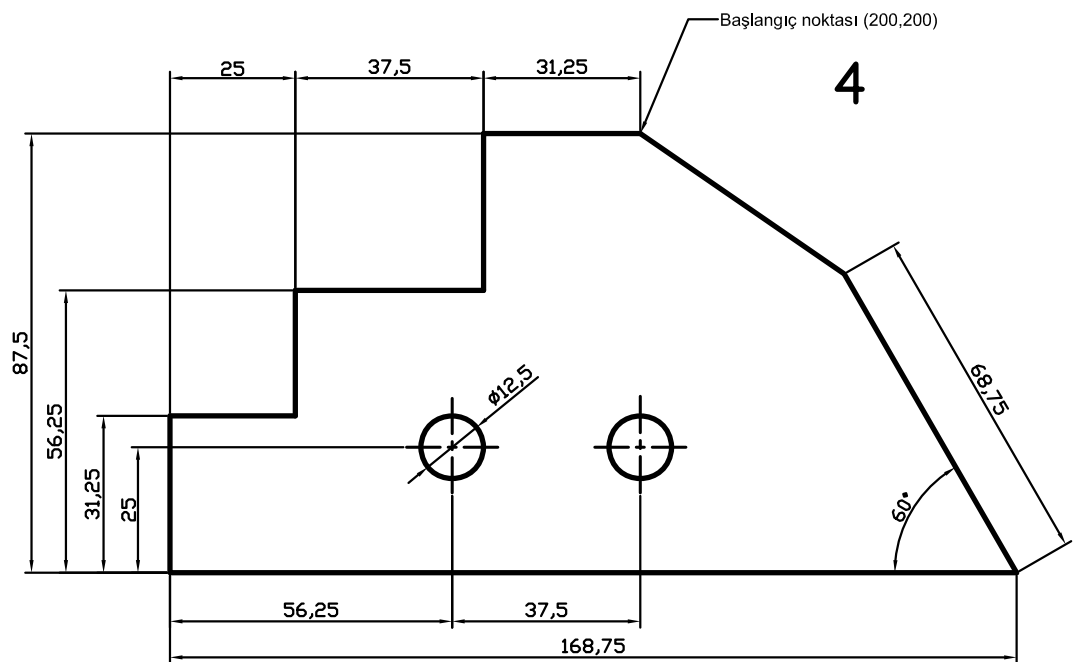
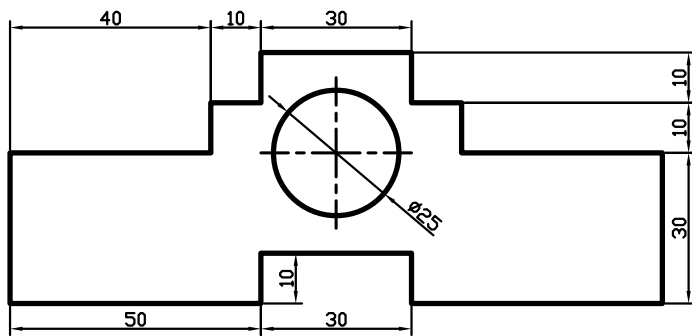
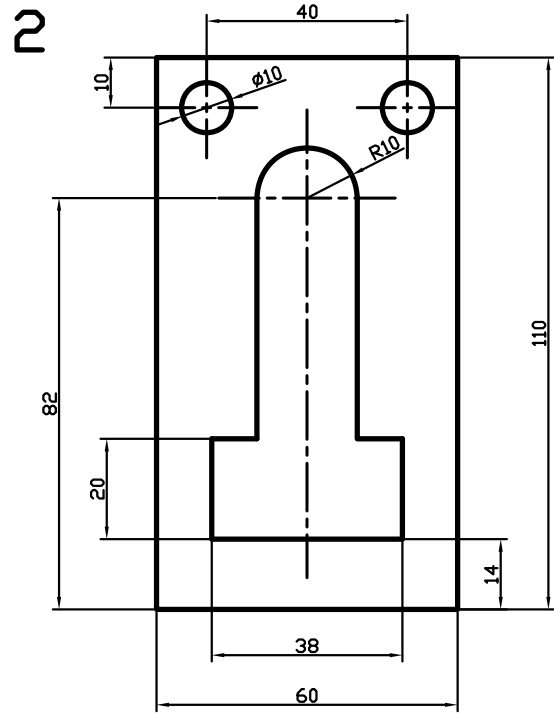
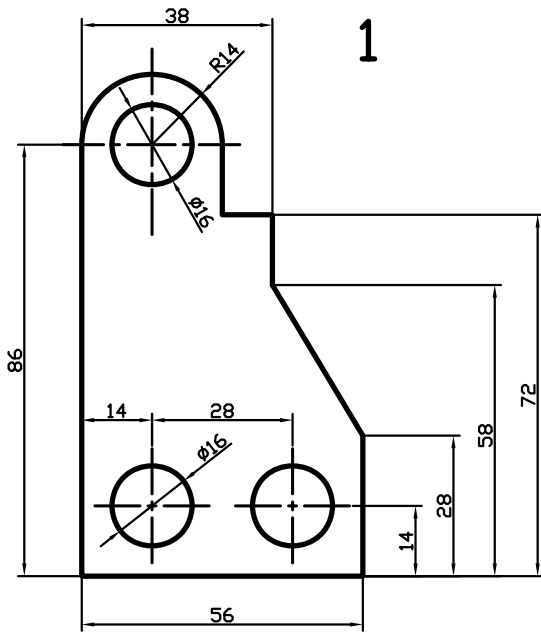
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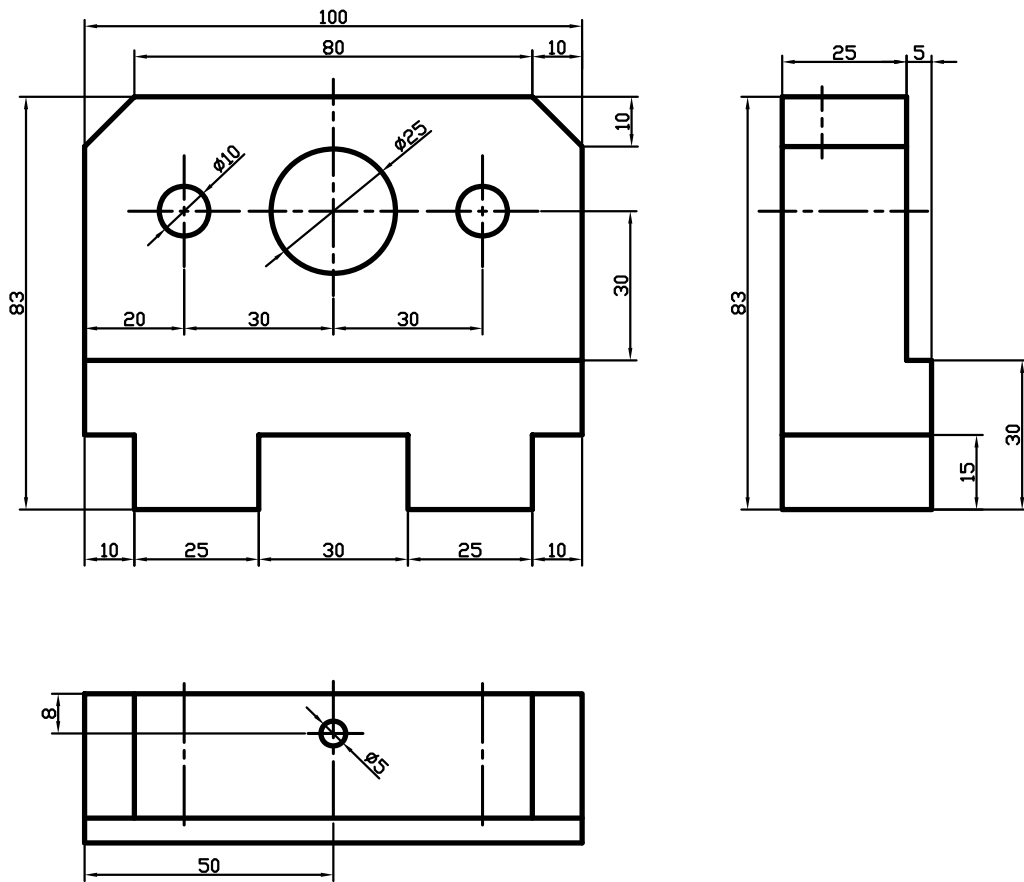


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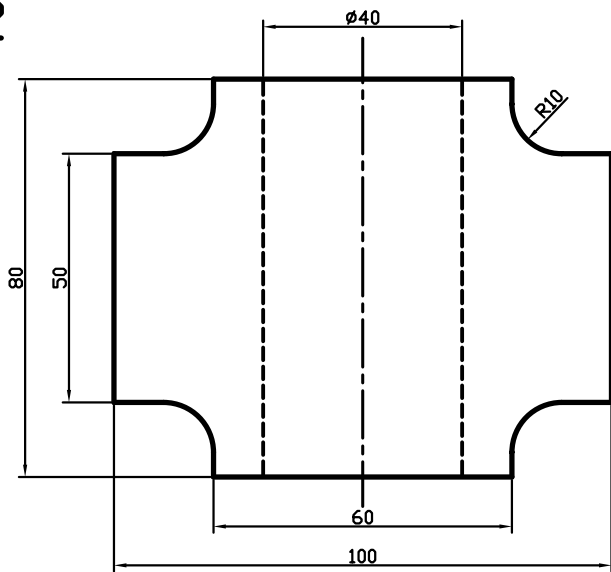


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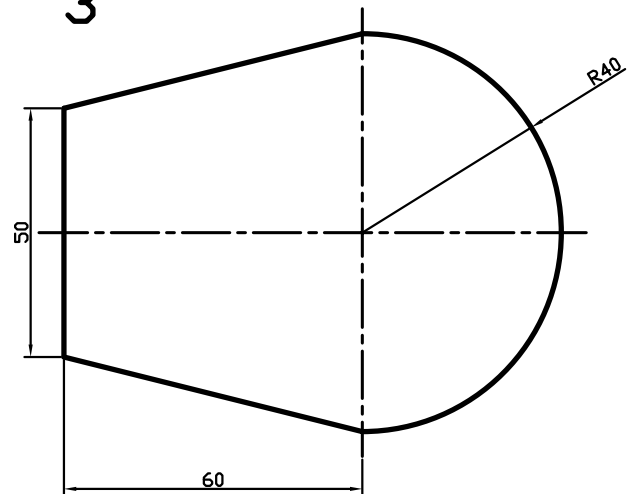
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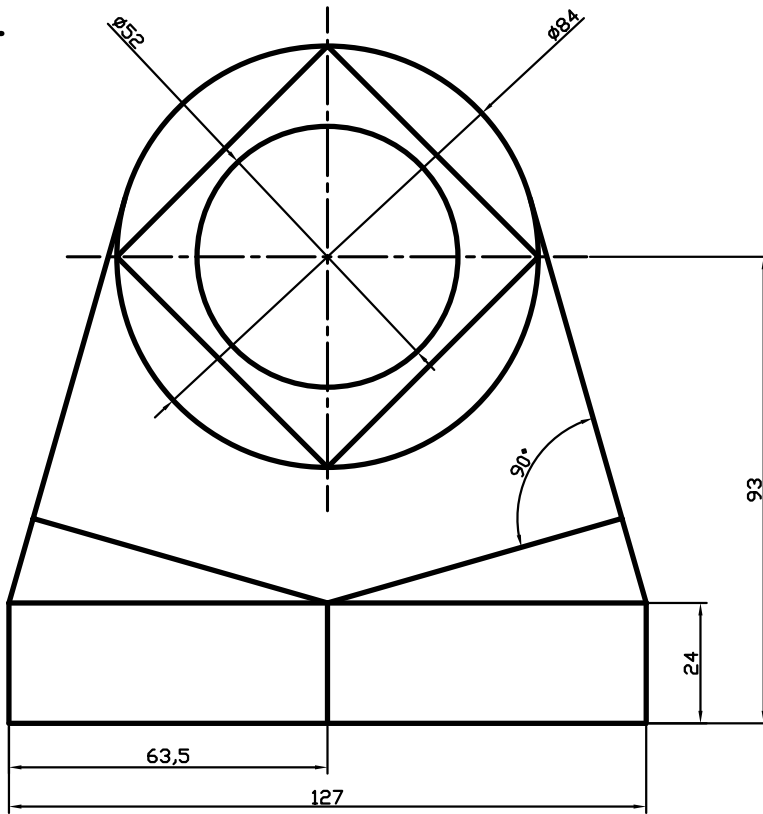


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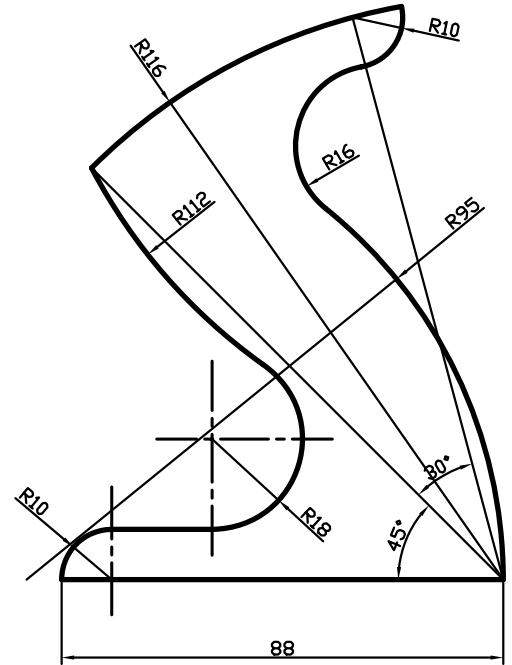


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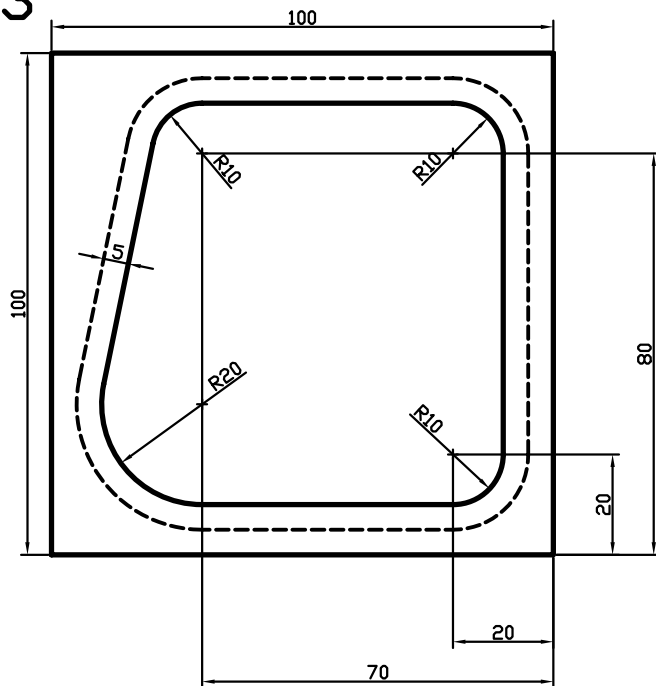
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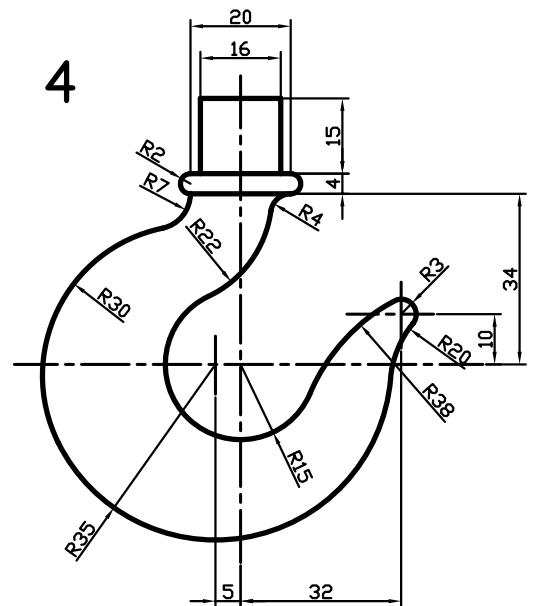
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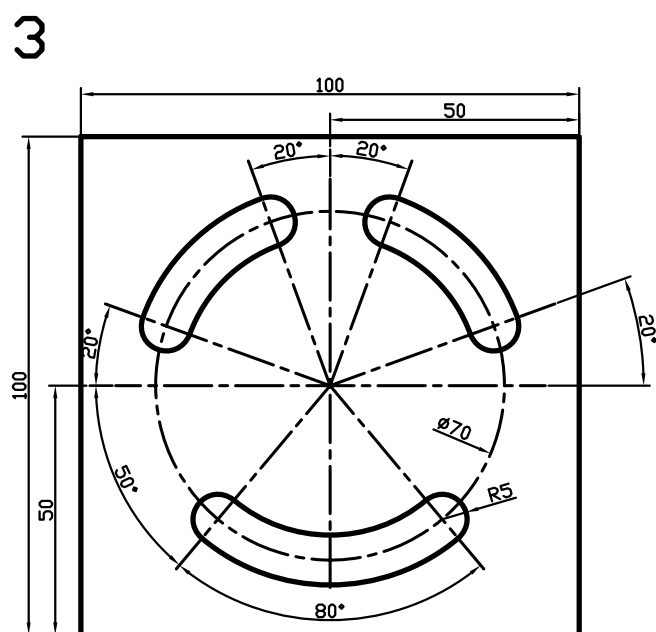
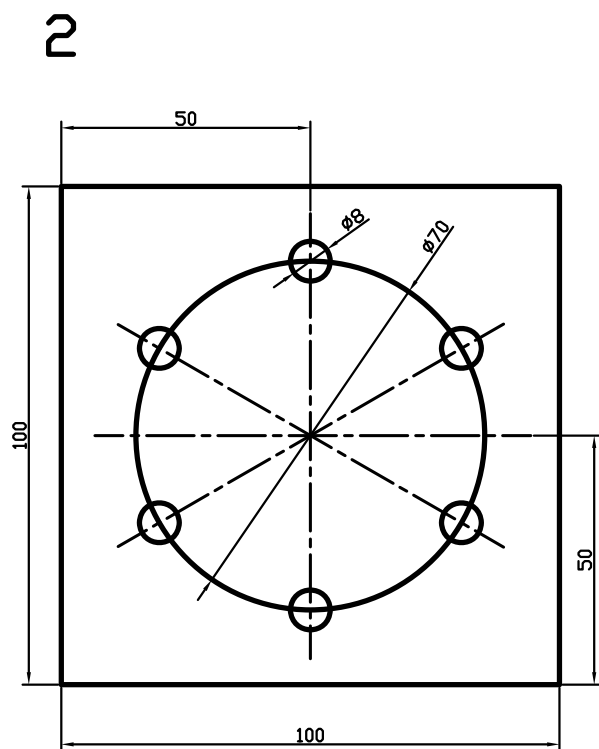
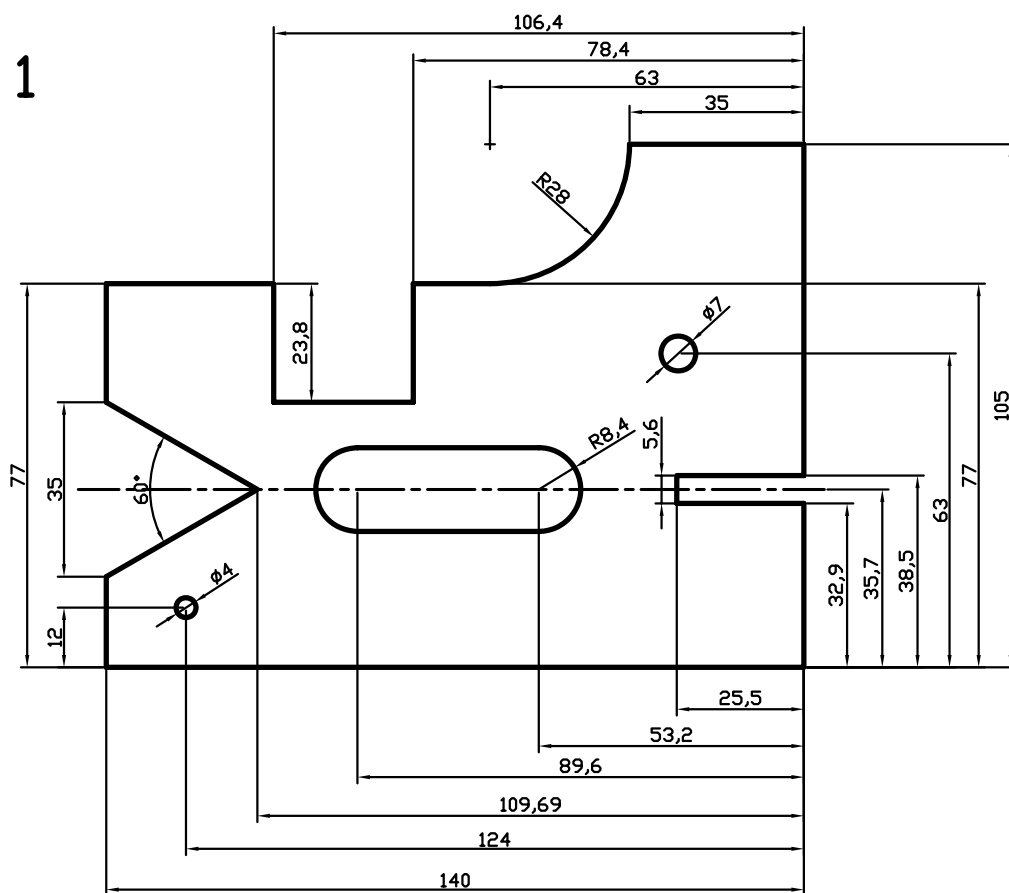
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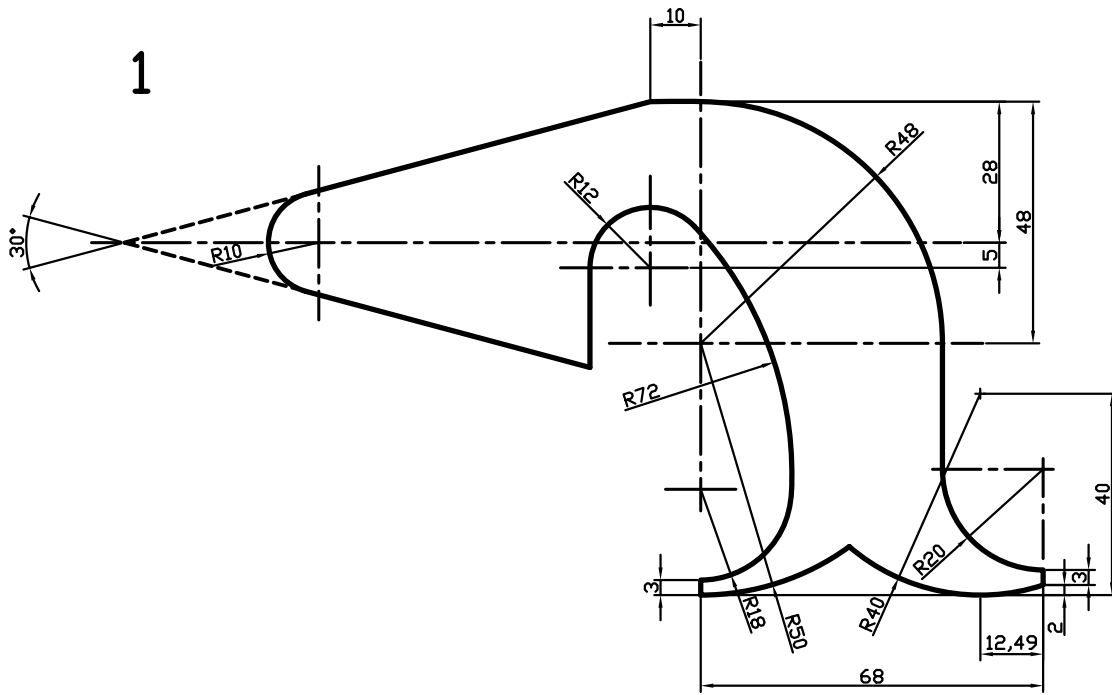
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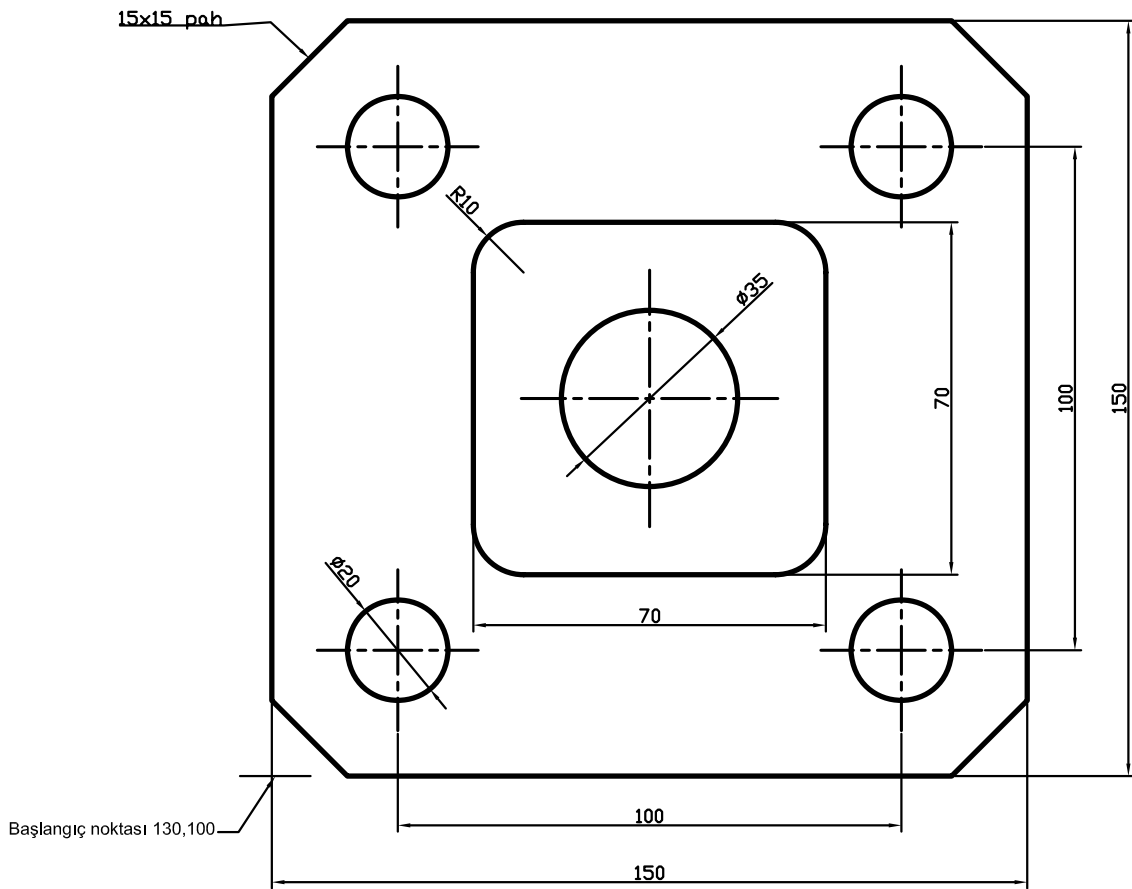
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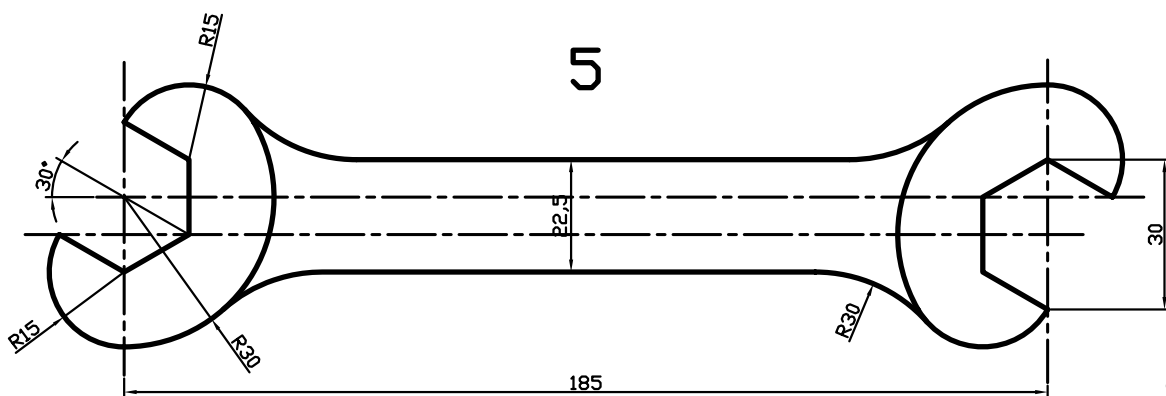
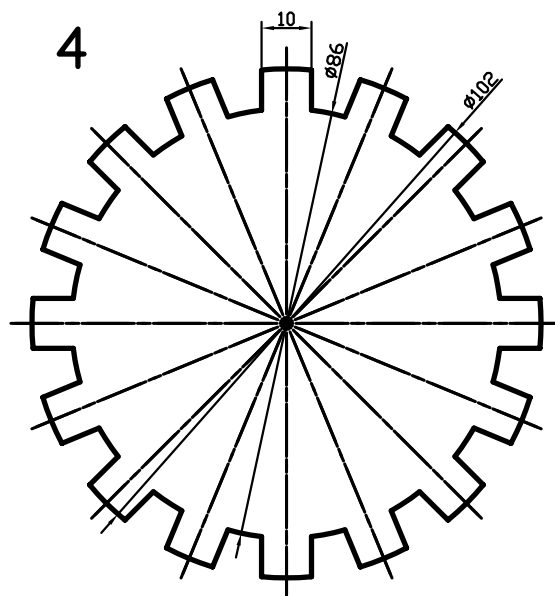
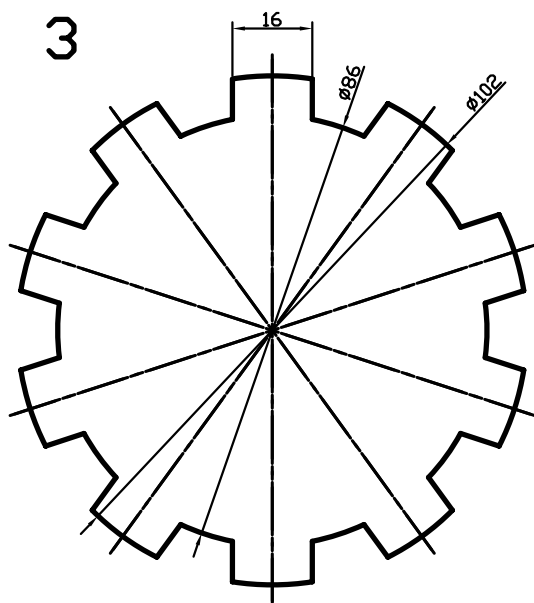
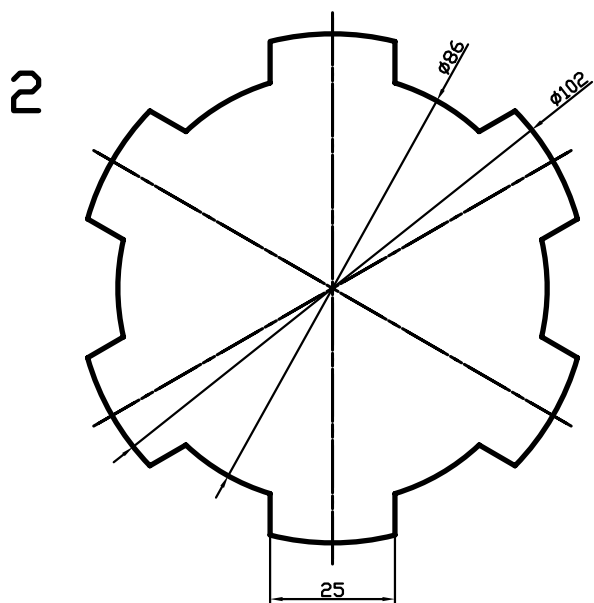
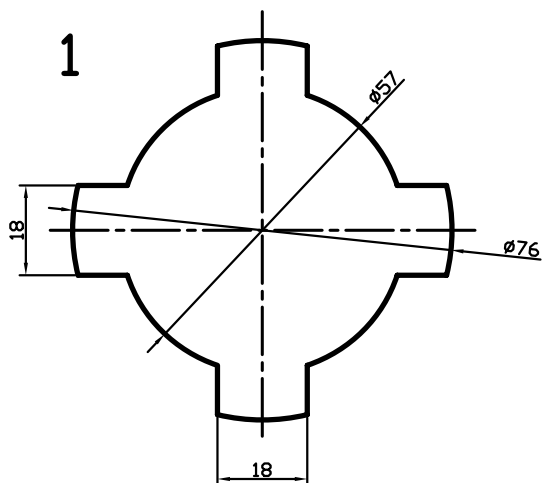
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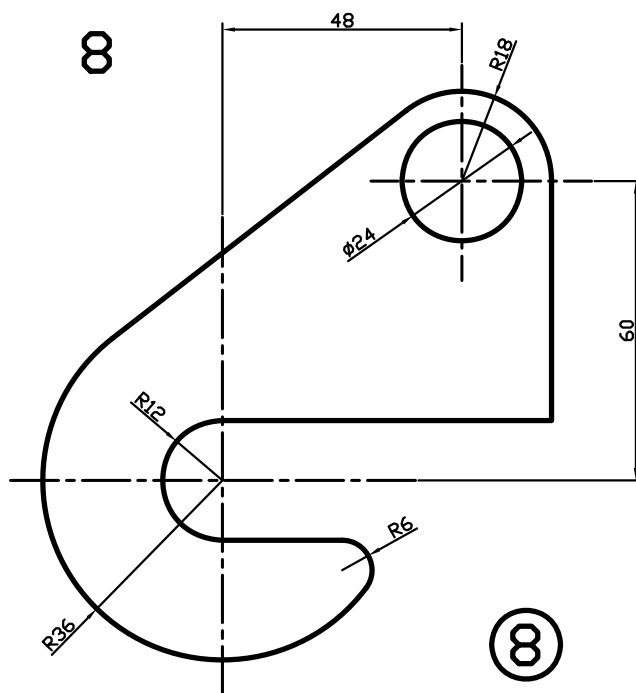
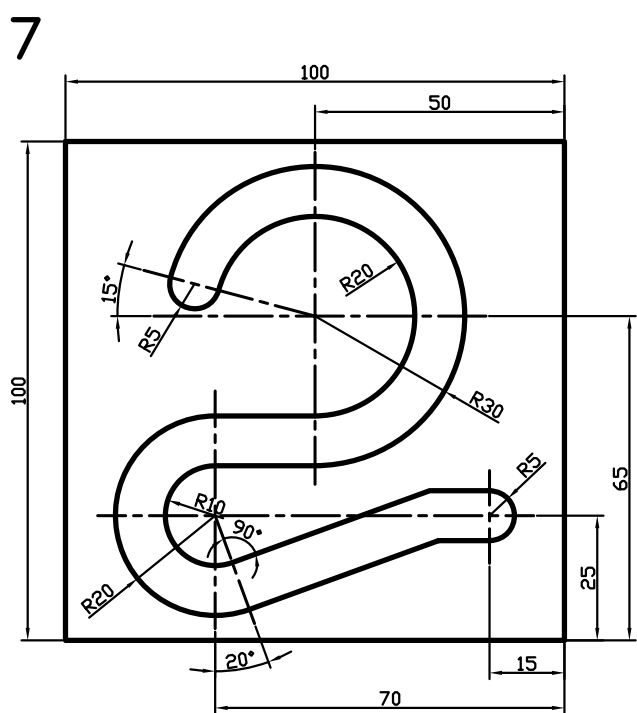
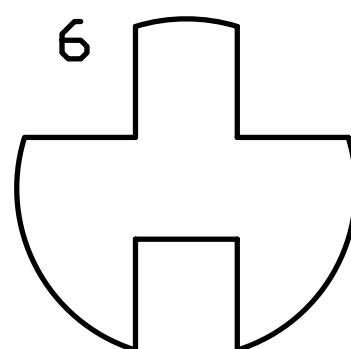
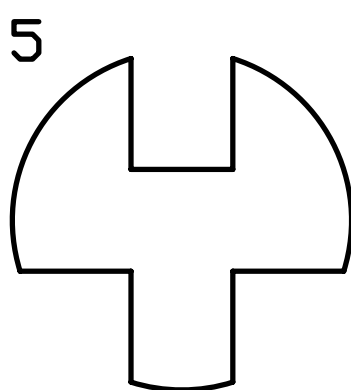
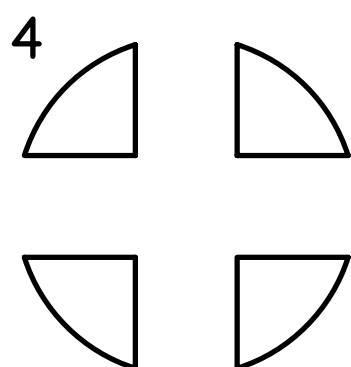
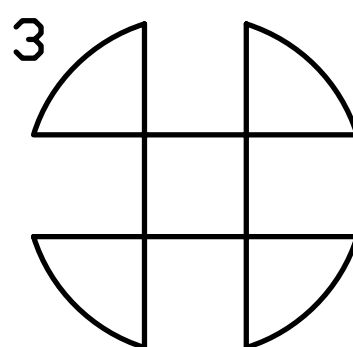
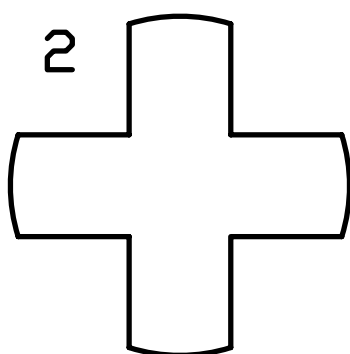
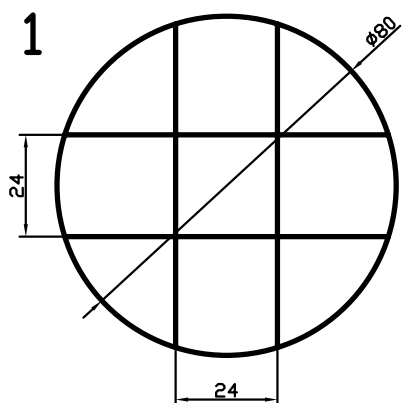


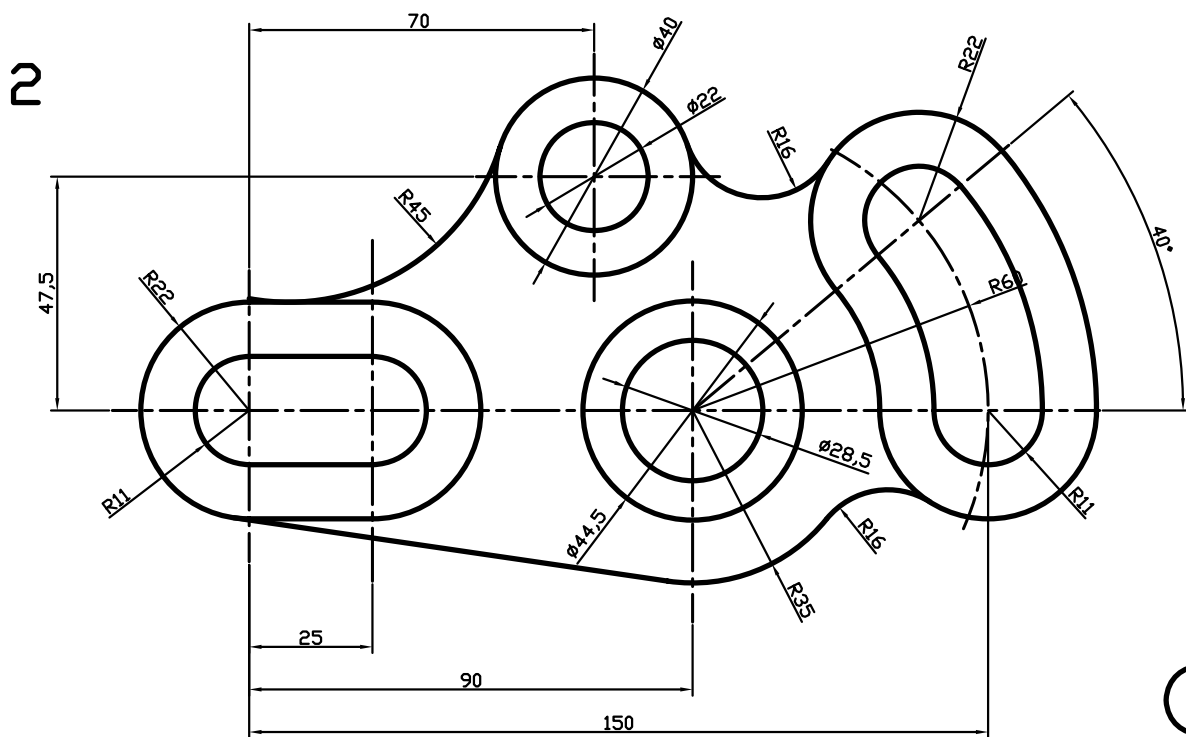
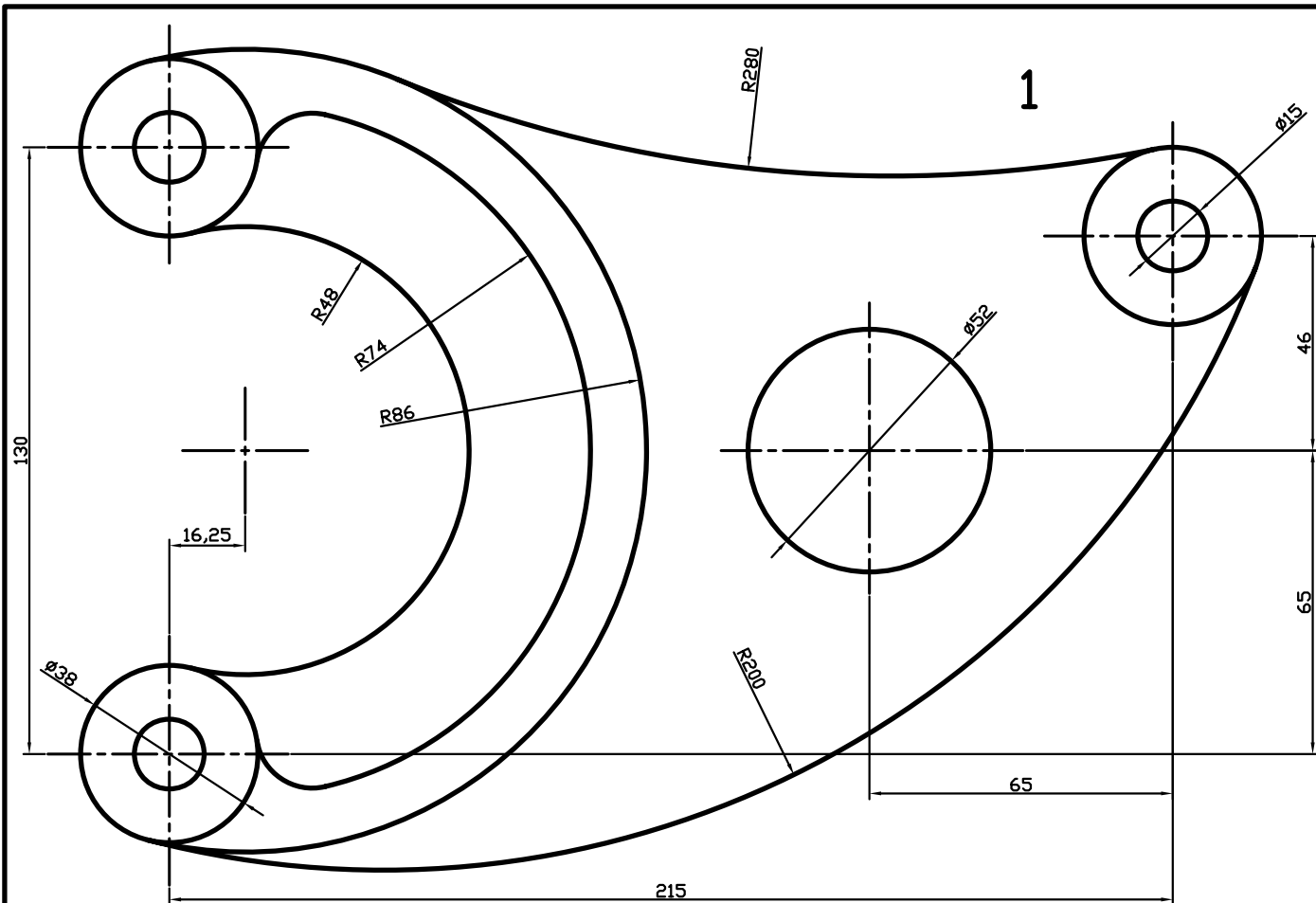
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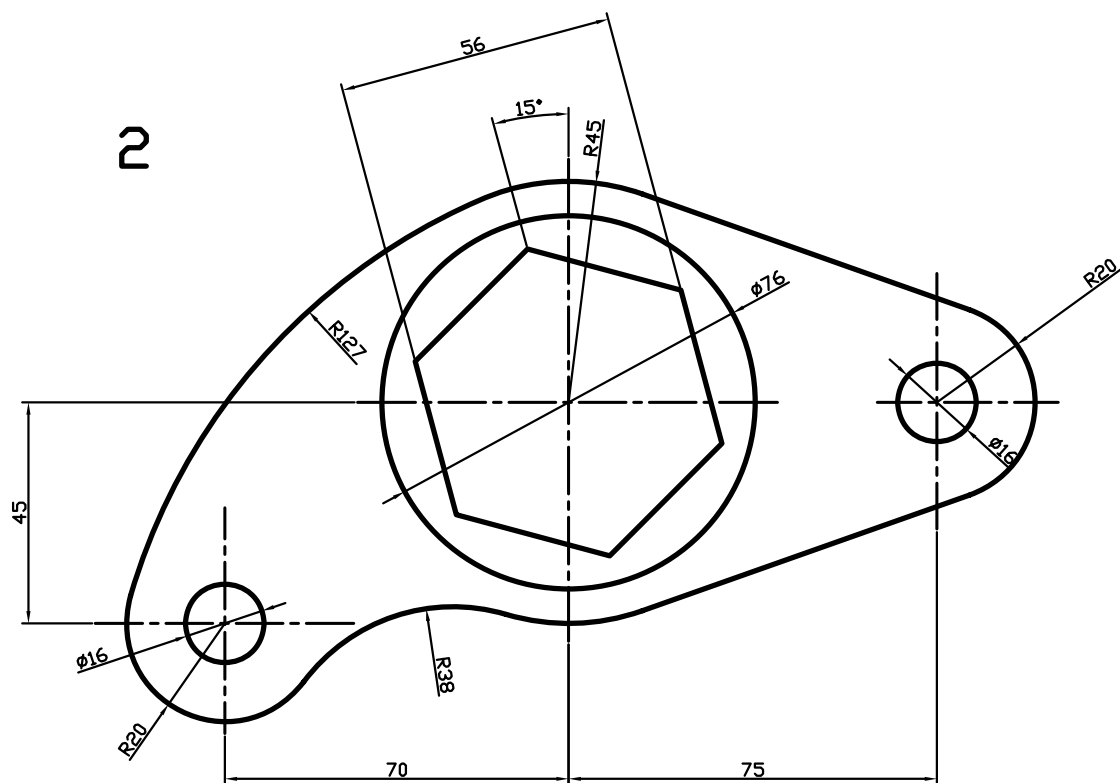
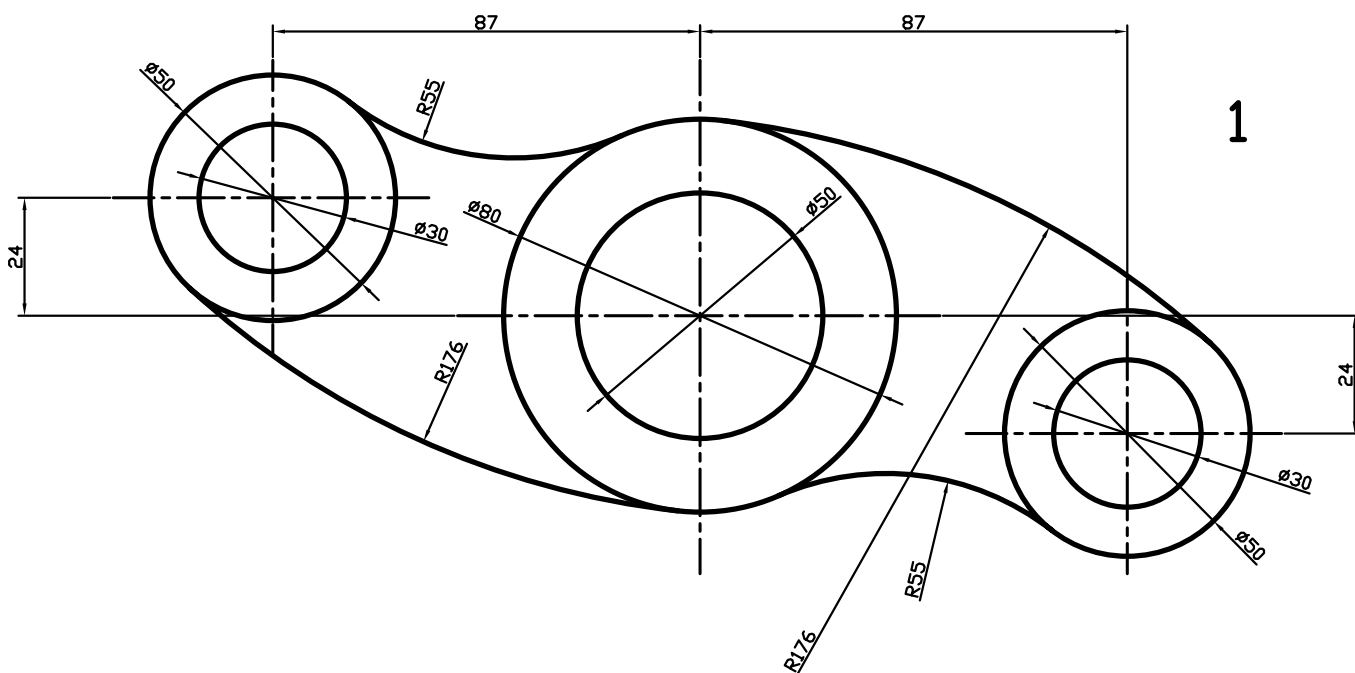




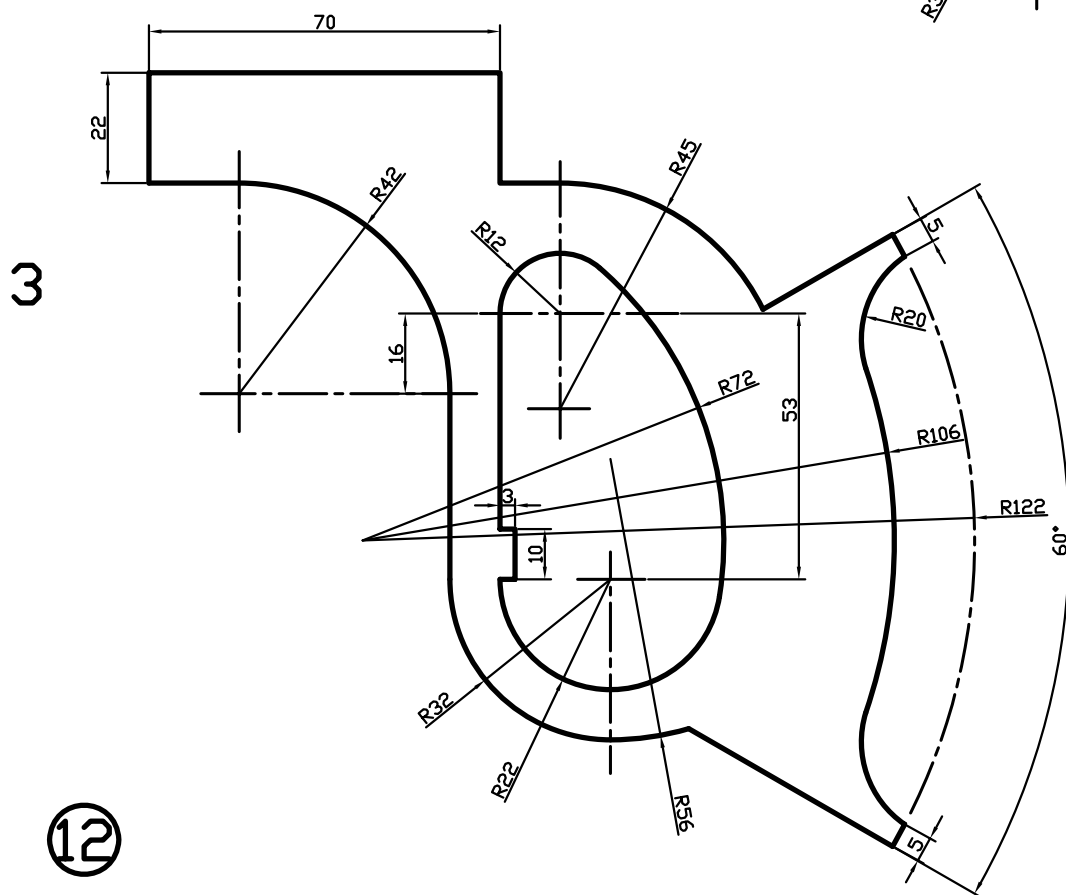
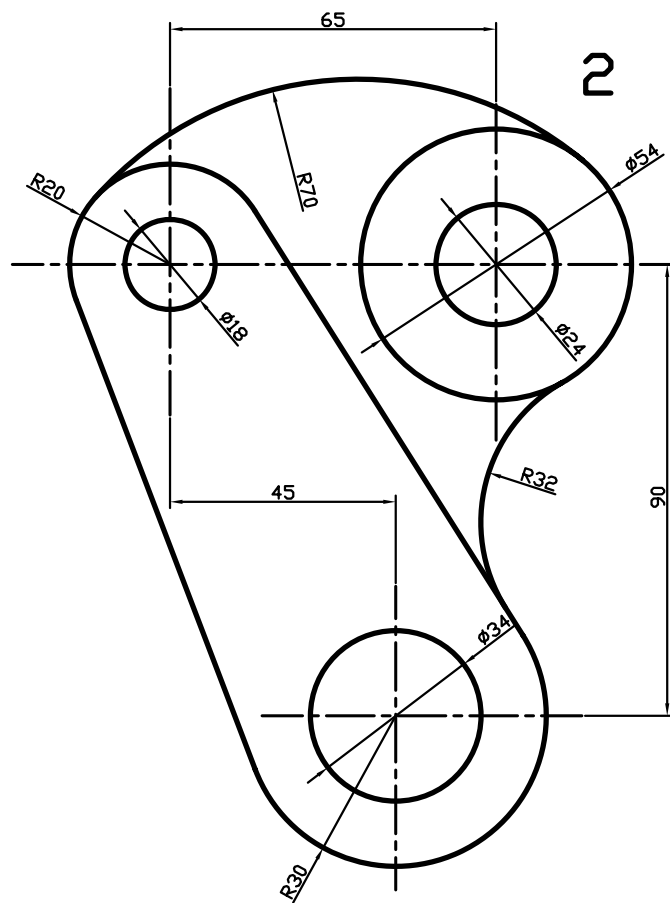
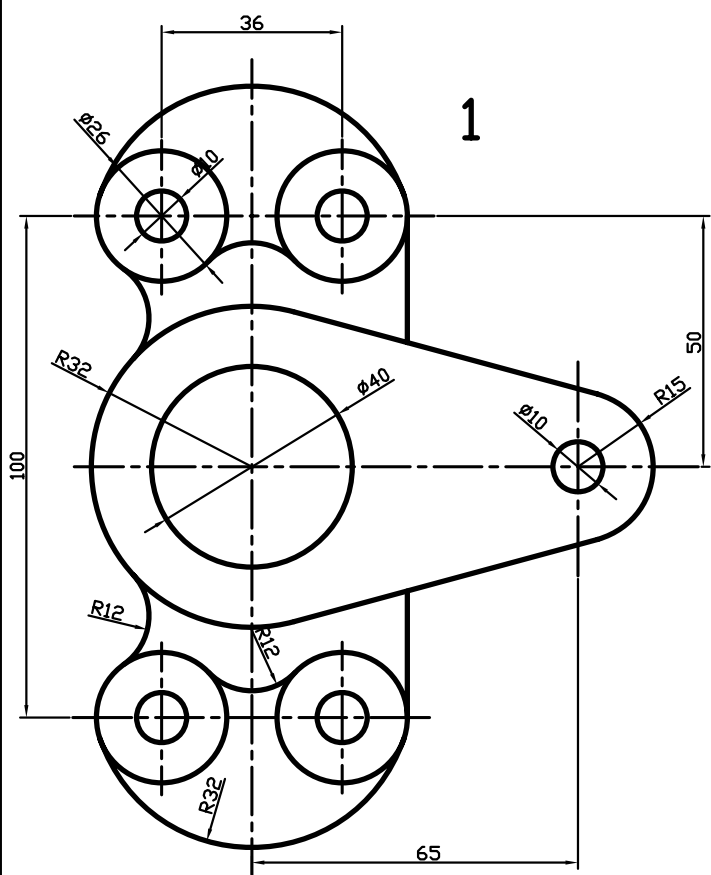


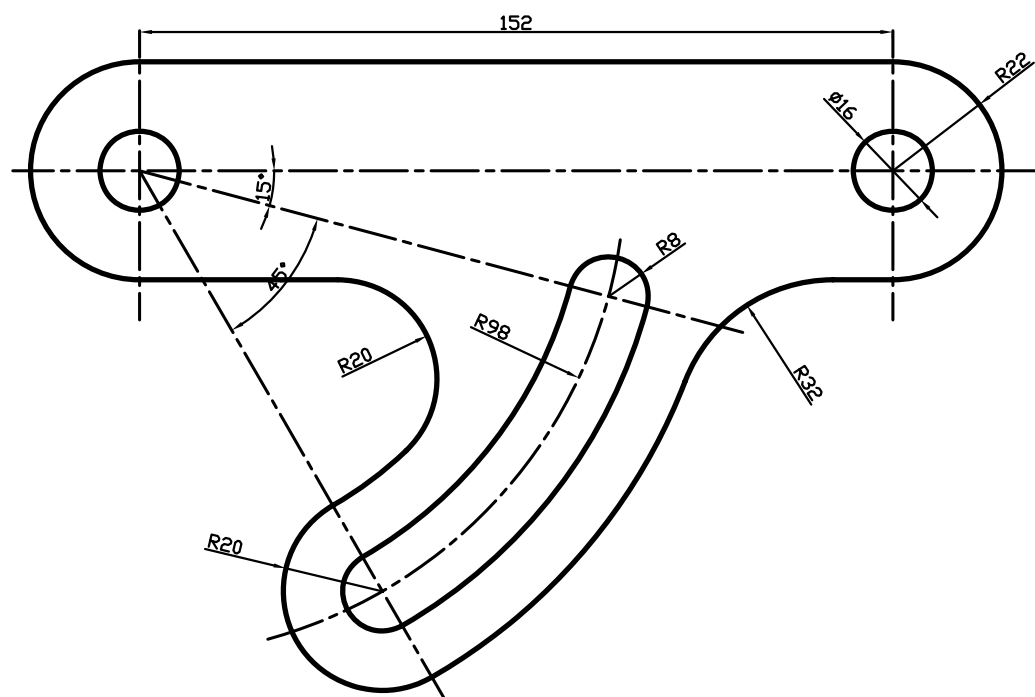
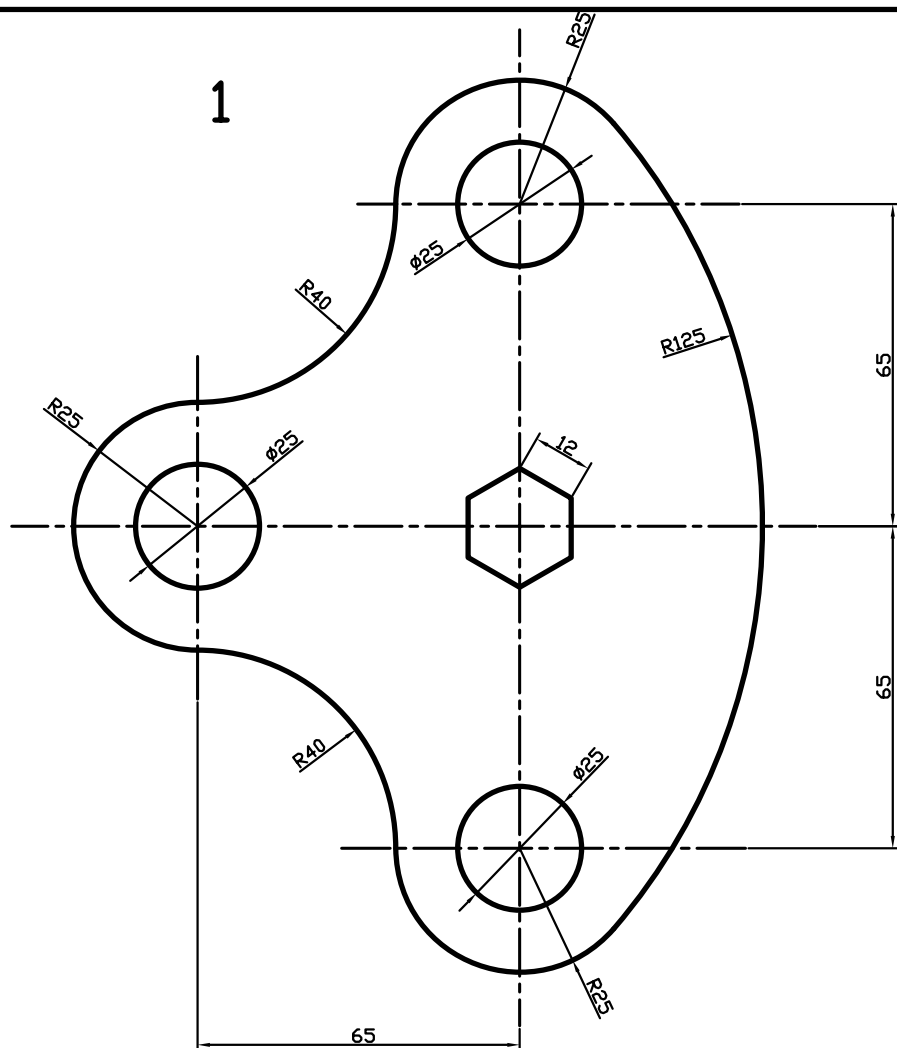
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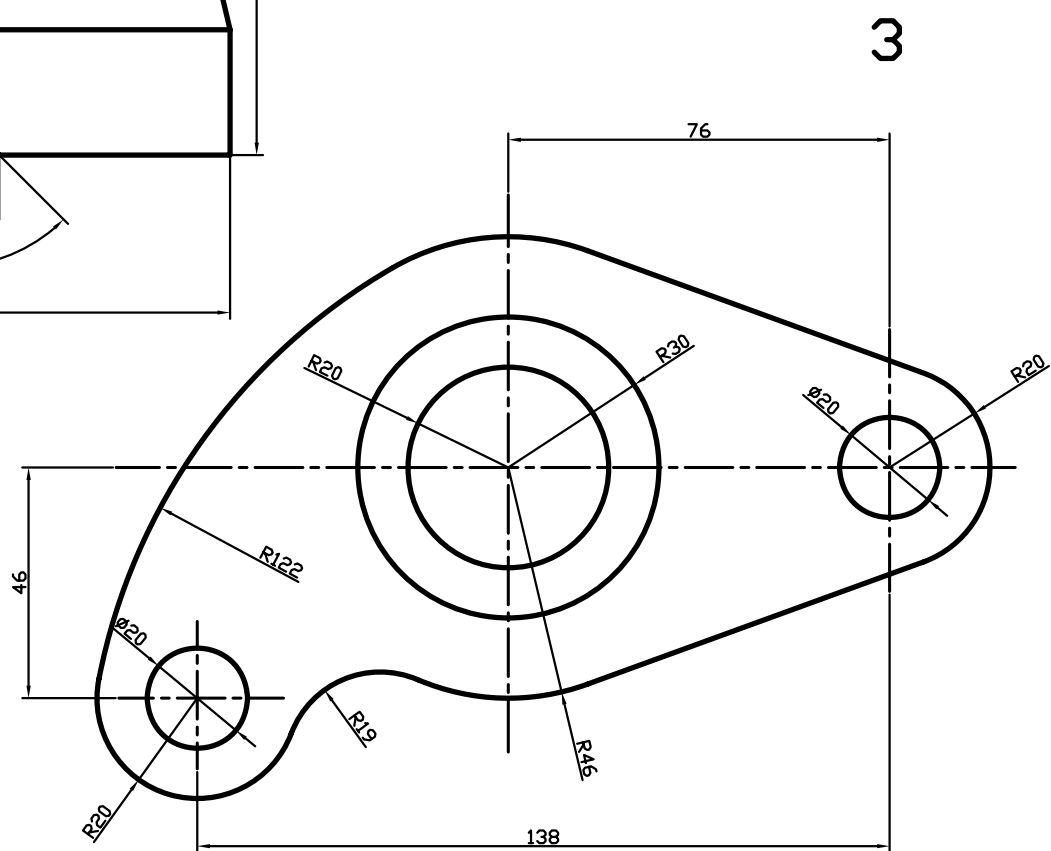
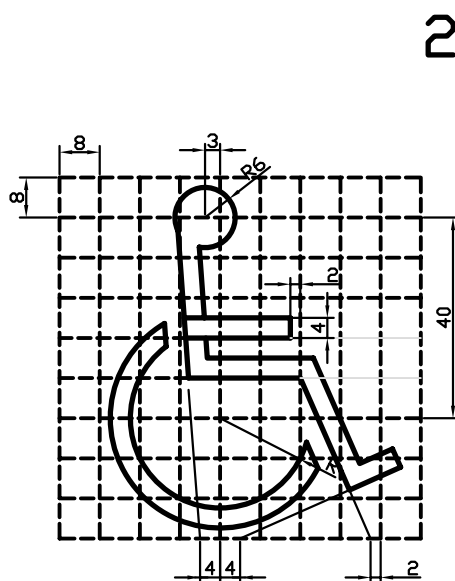
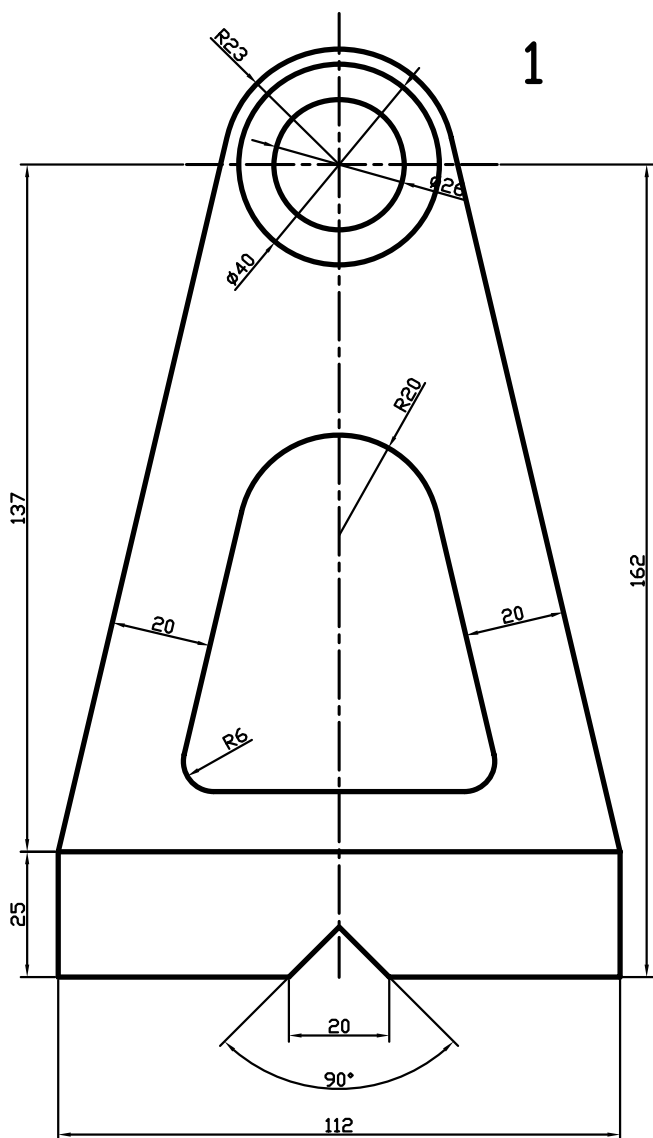


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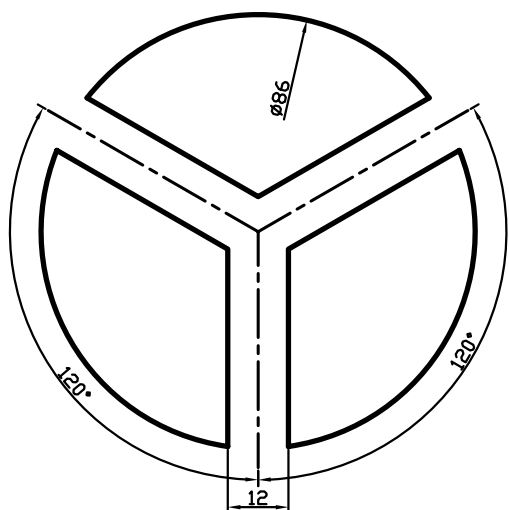




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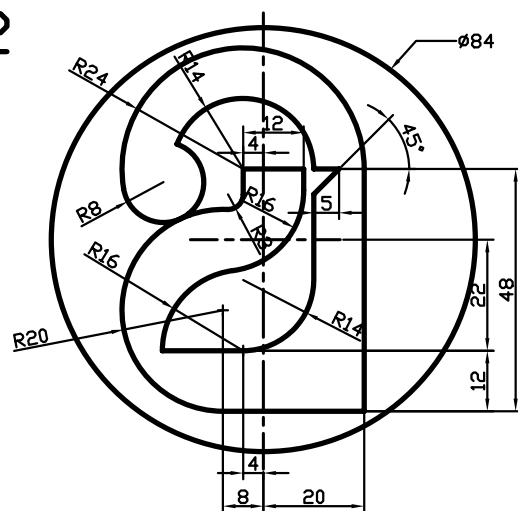


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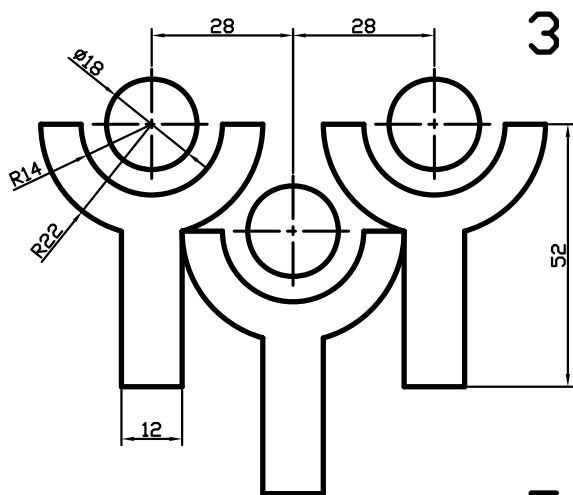


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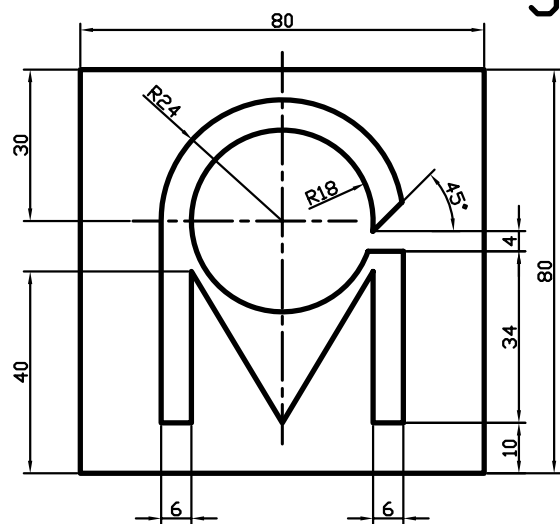
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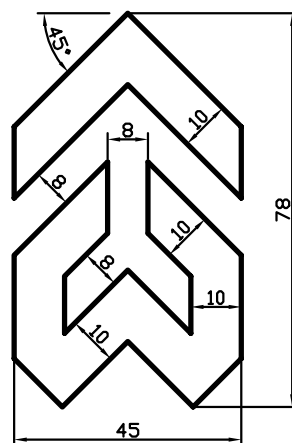
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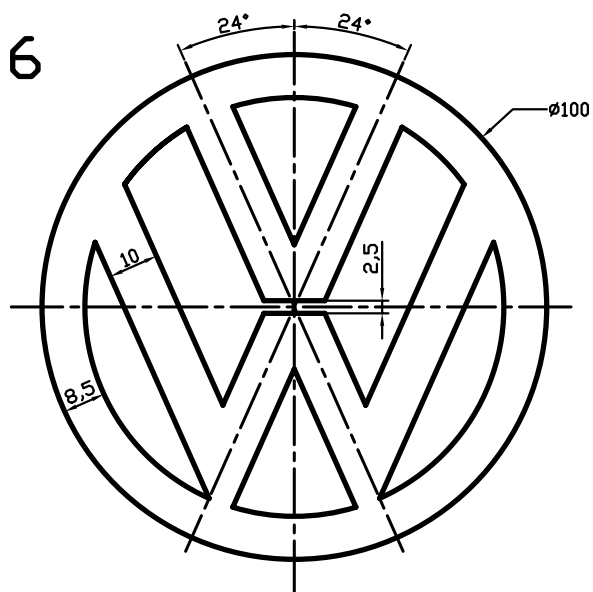
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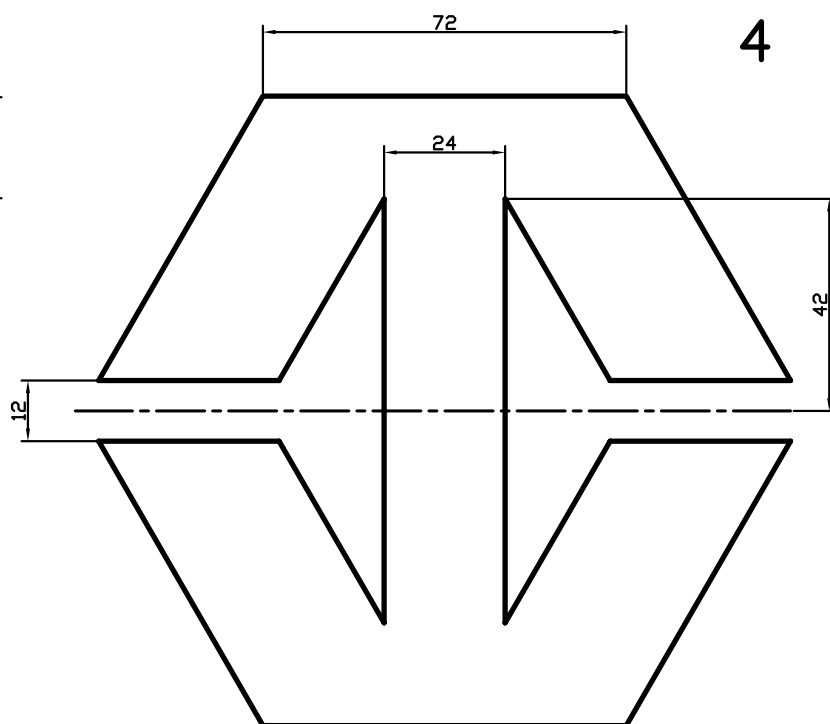
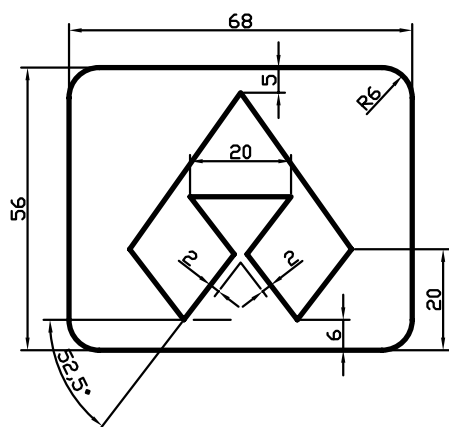
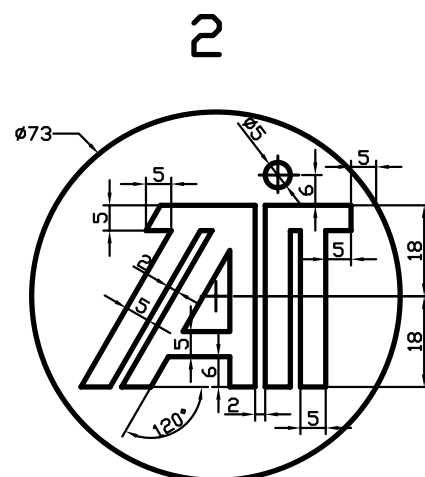
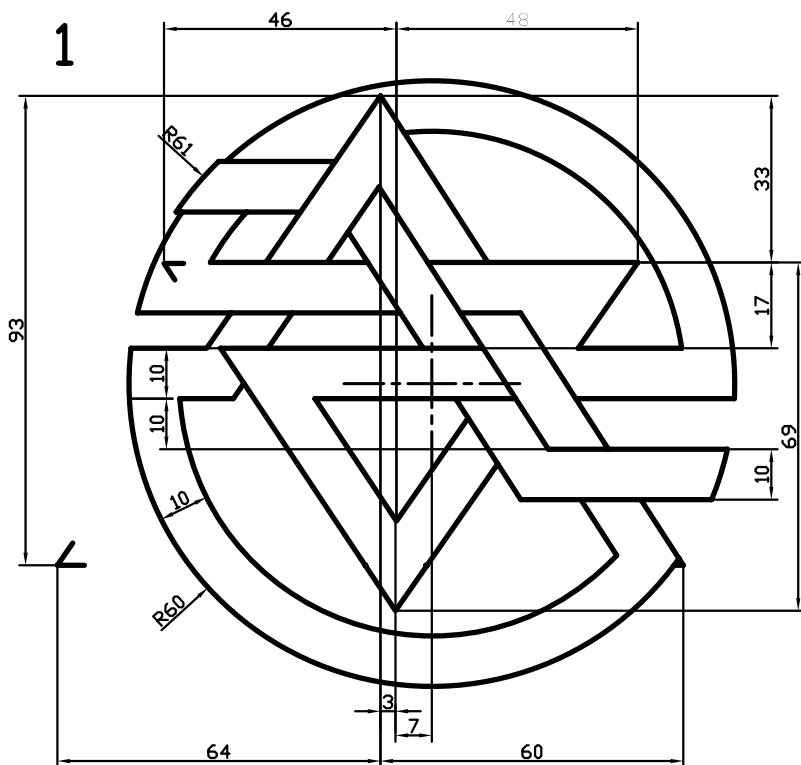


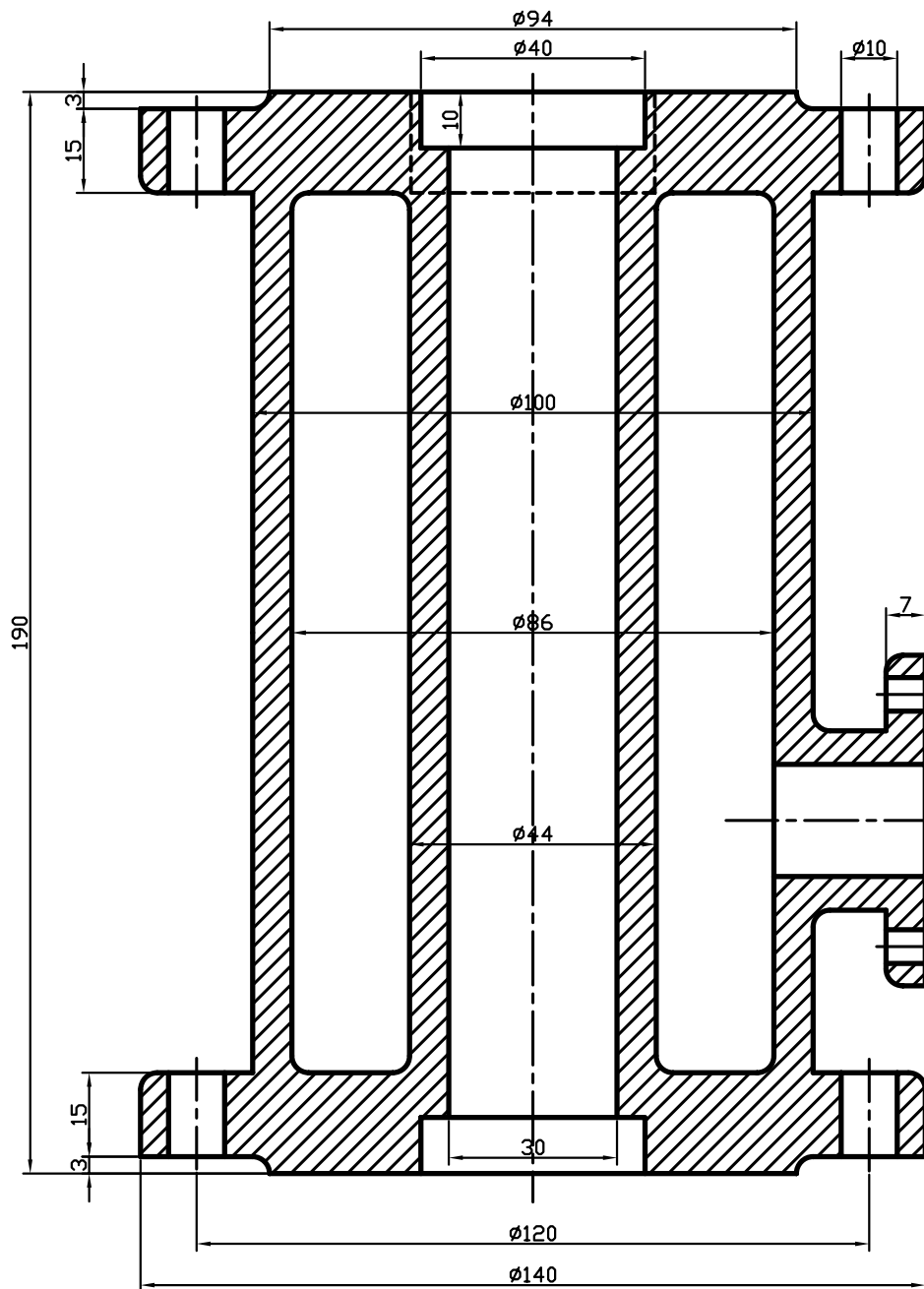
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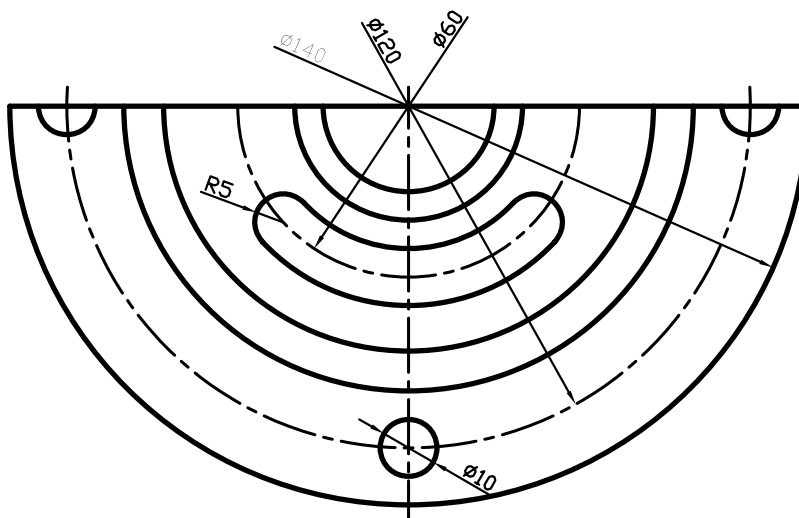
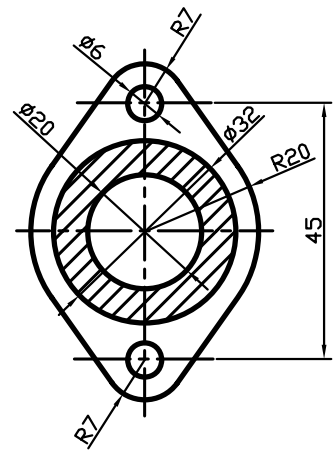
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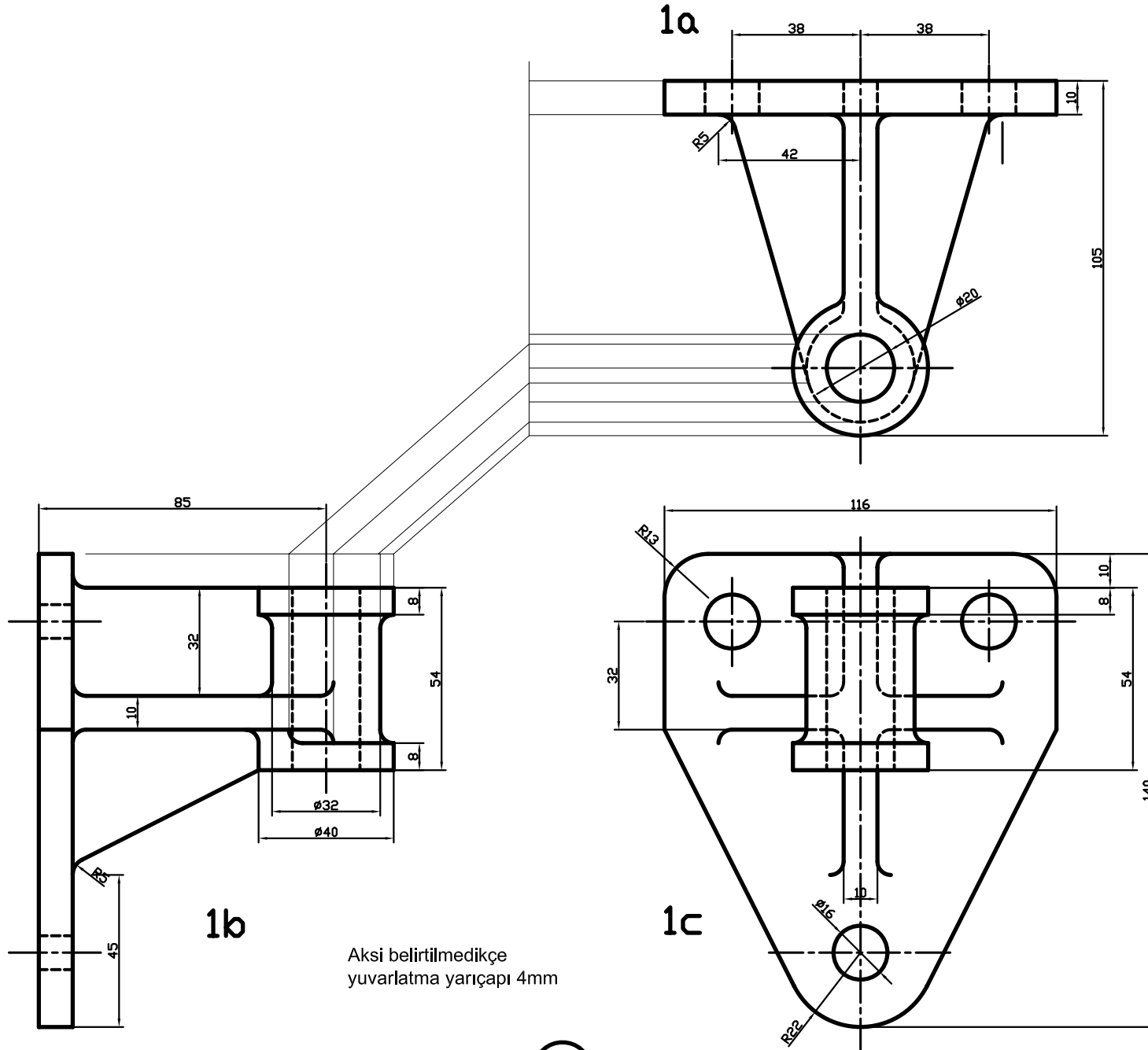


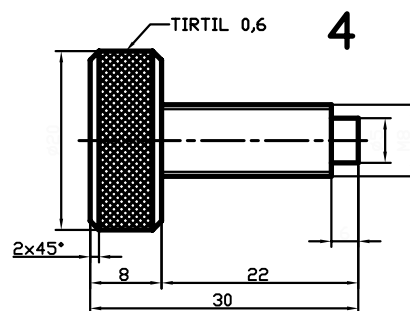
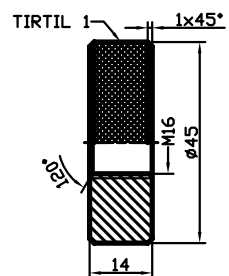
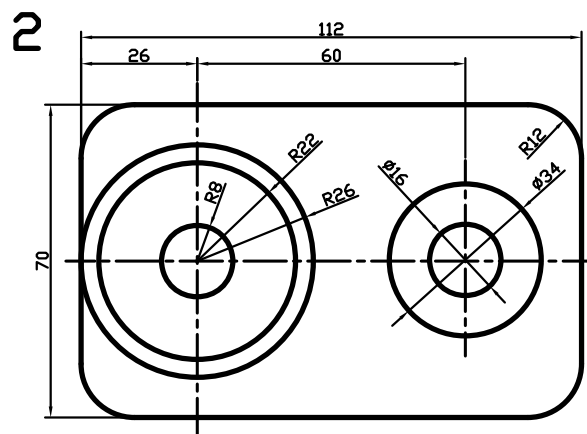
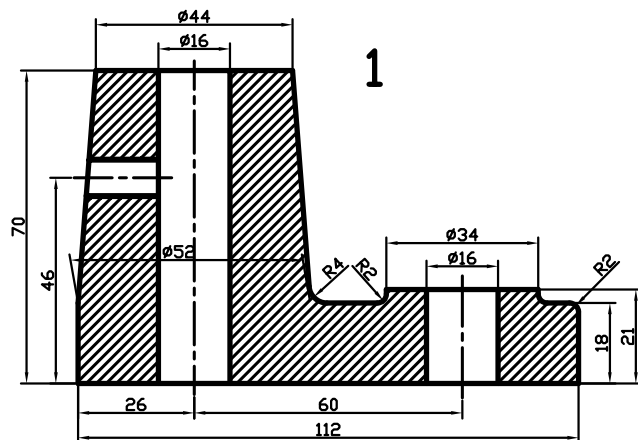




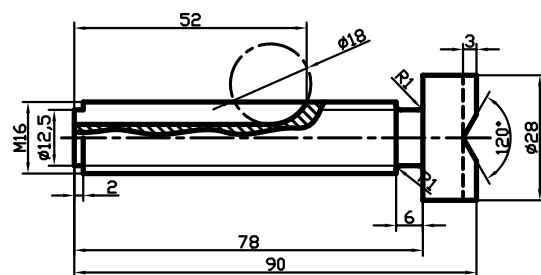
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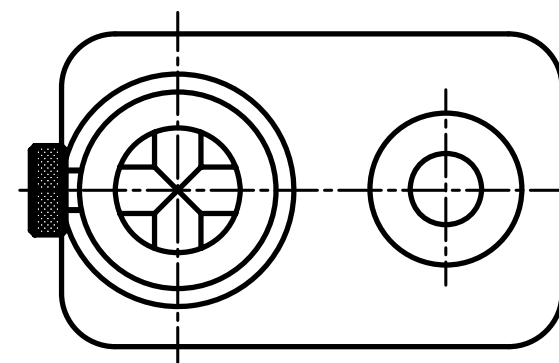
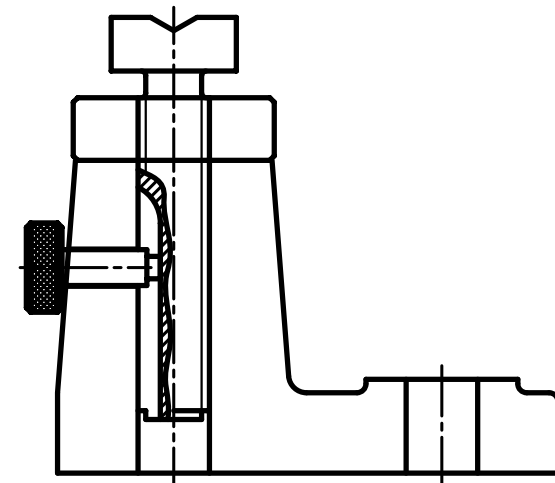
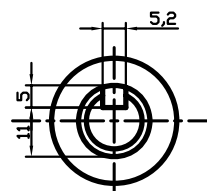




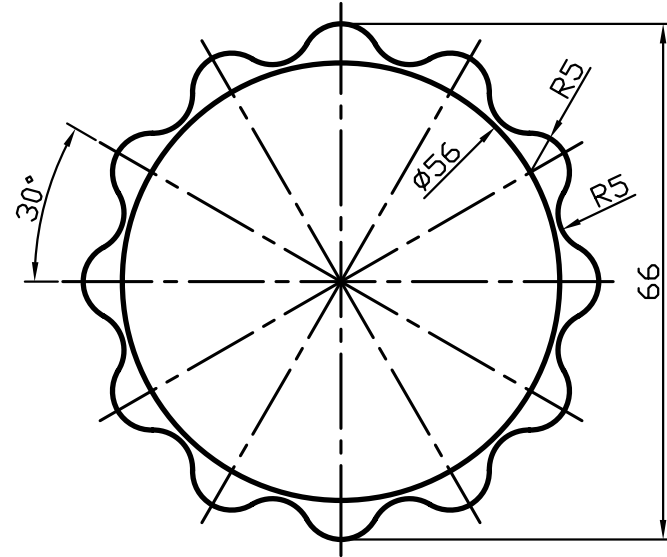
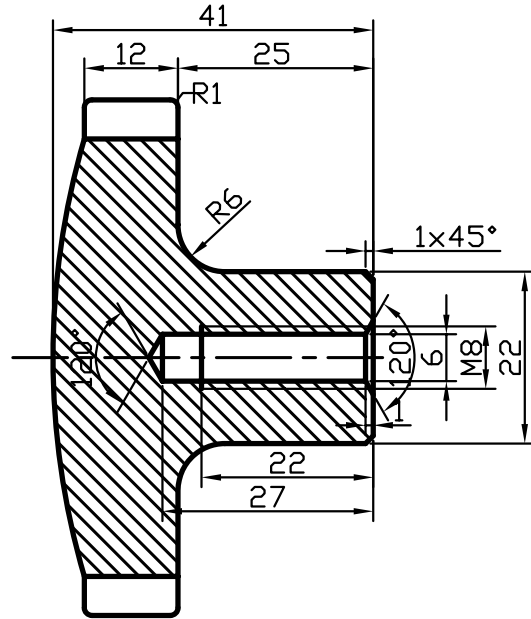
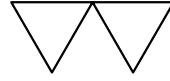
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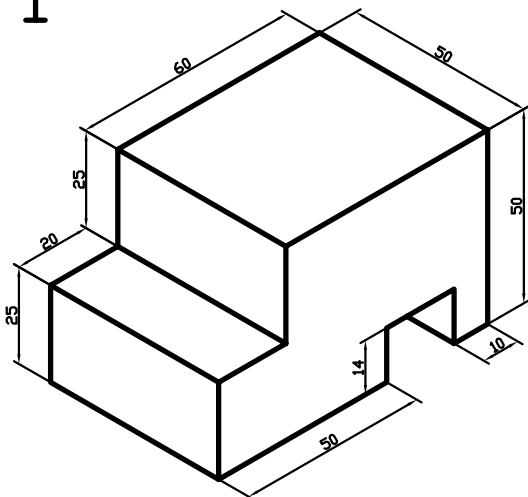
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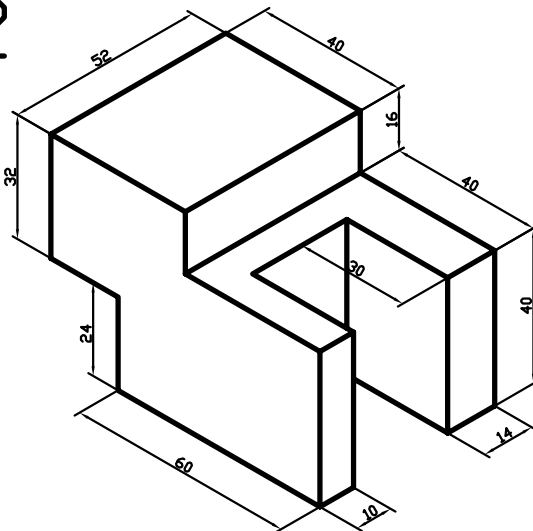
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Malzeme	Ölçek	Sayı	Parça Adı	Çizen	Resim No.

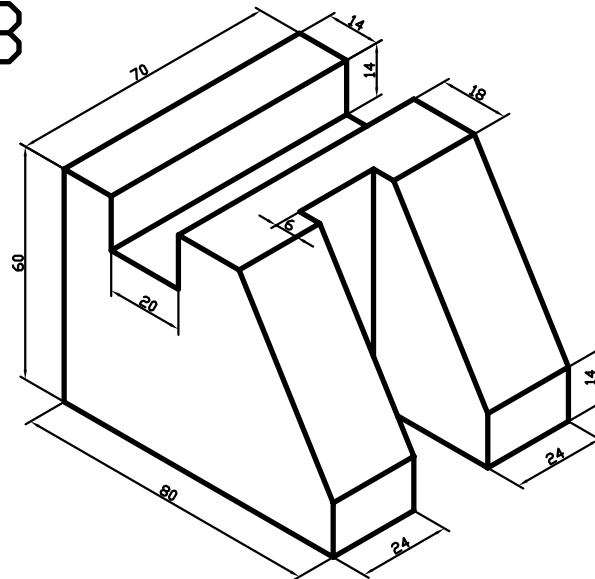
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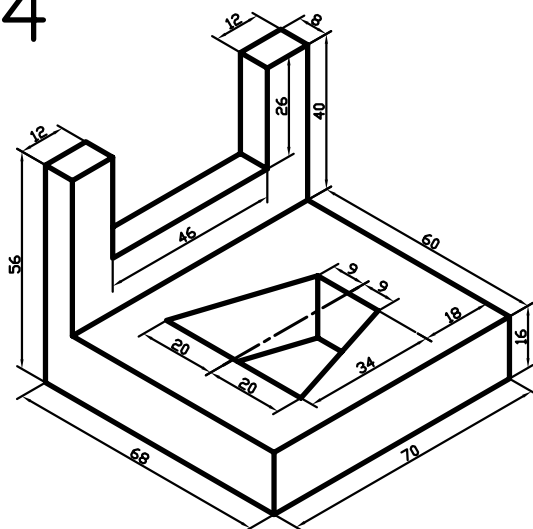
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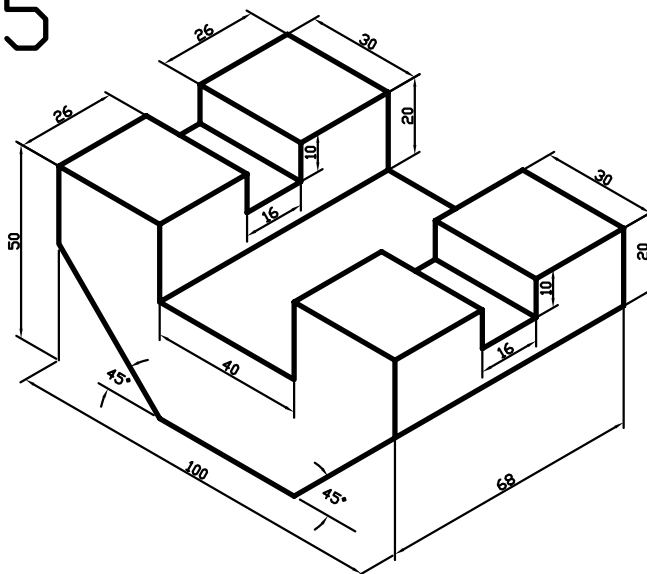
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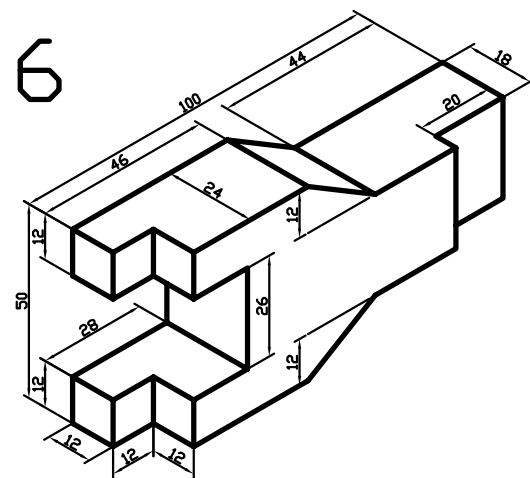
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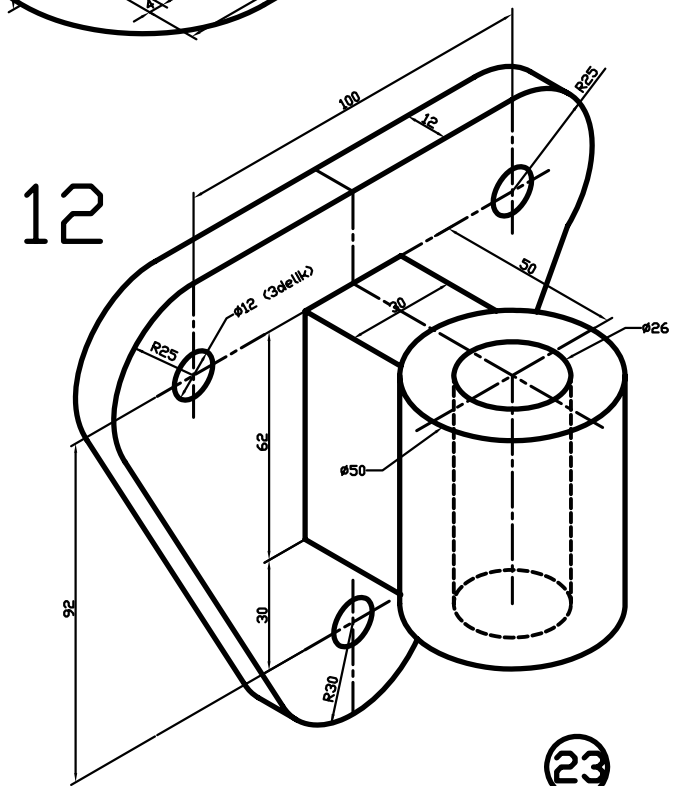
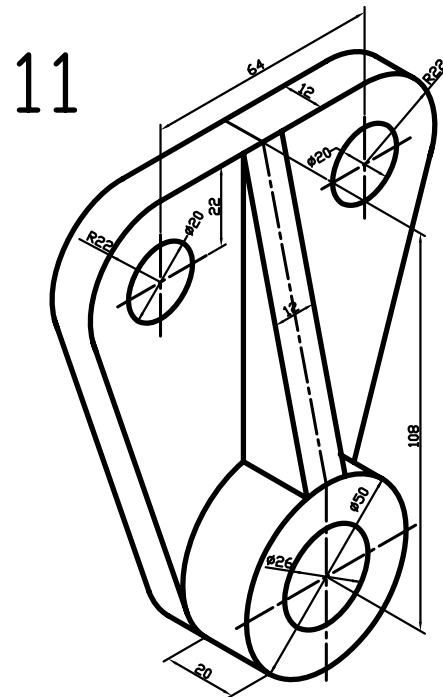
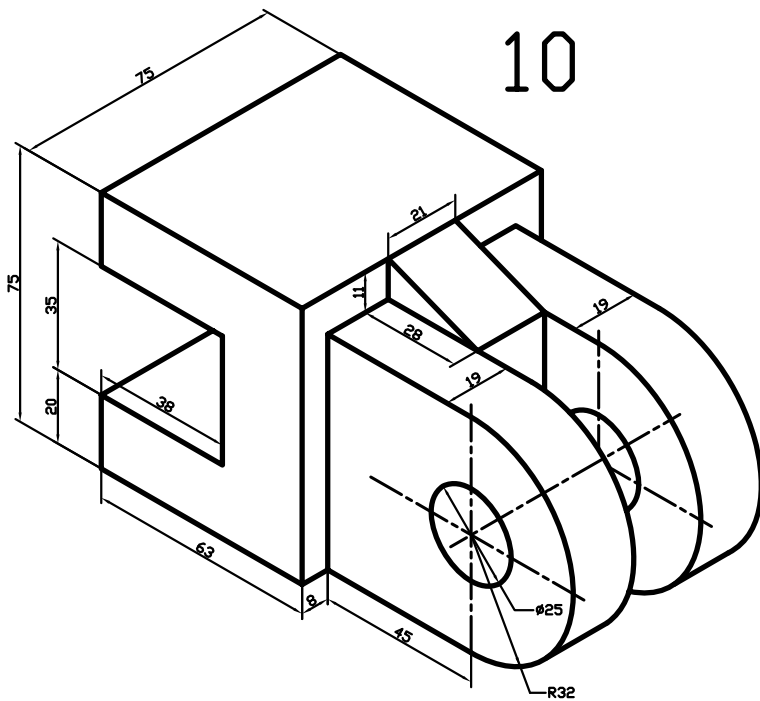
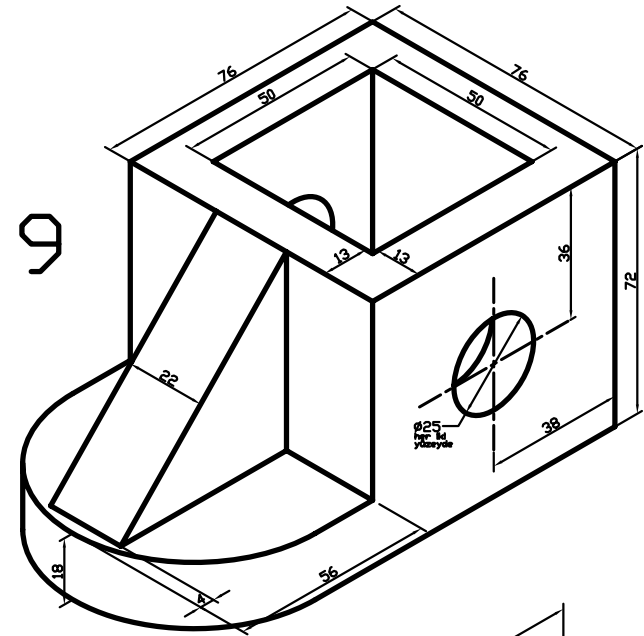
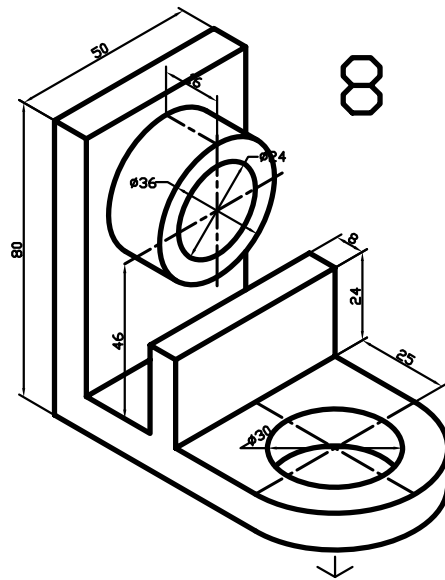
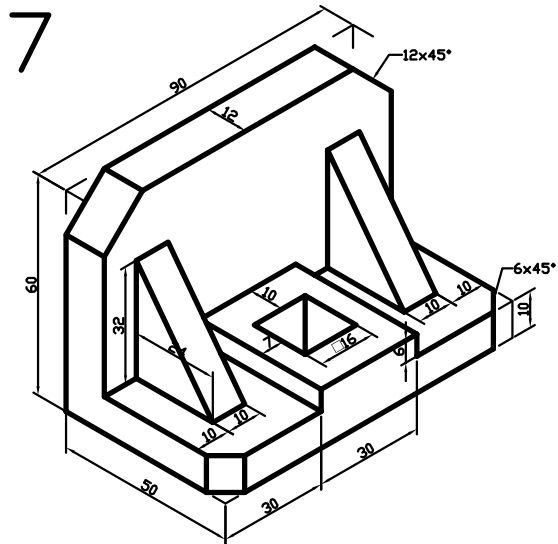
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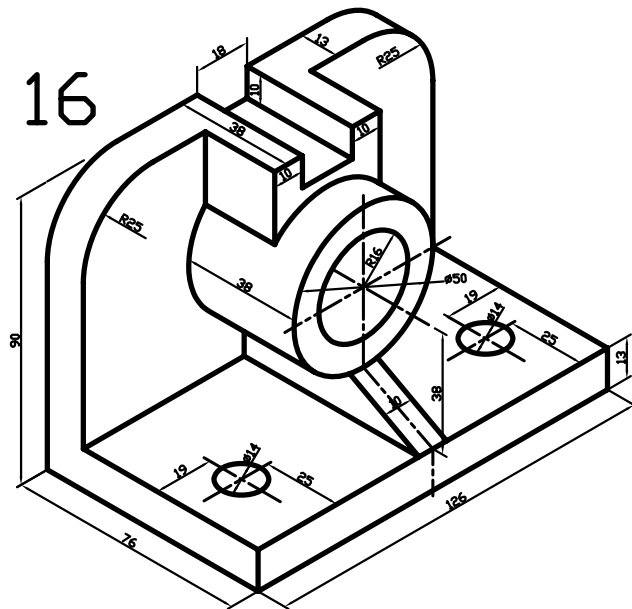
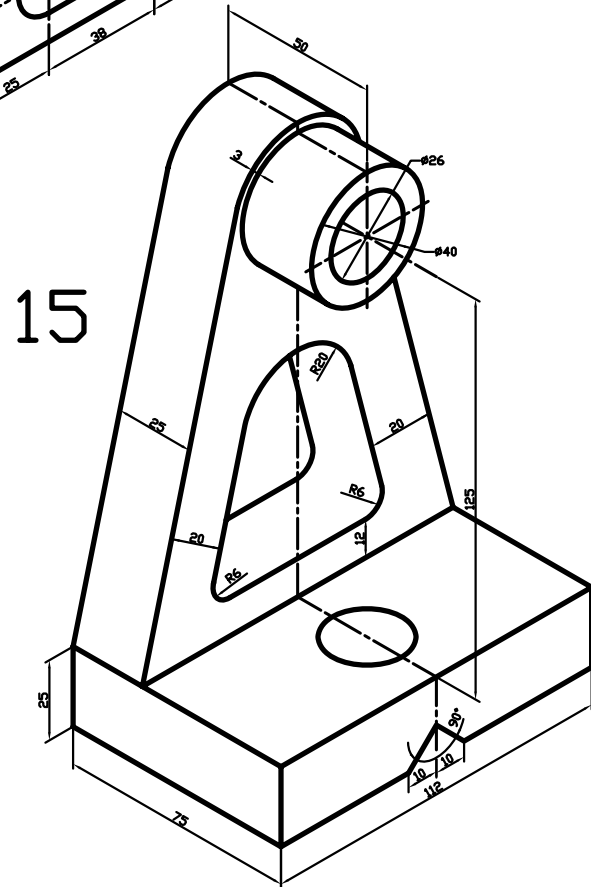
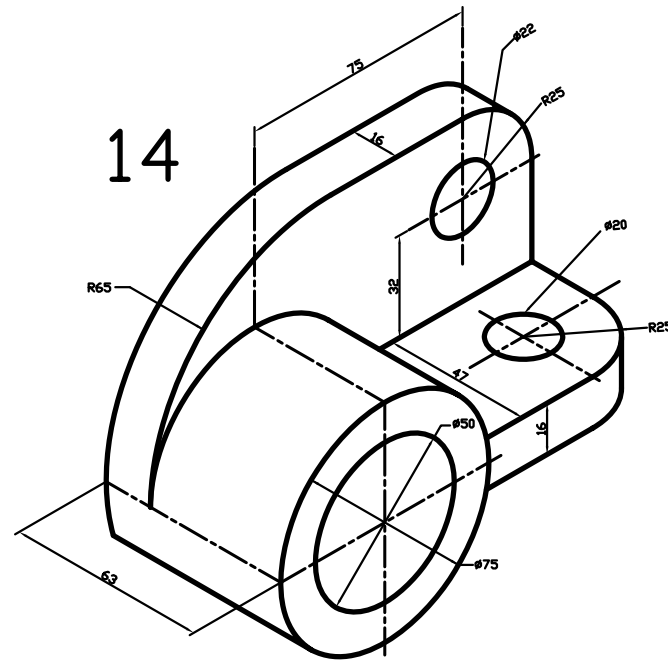
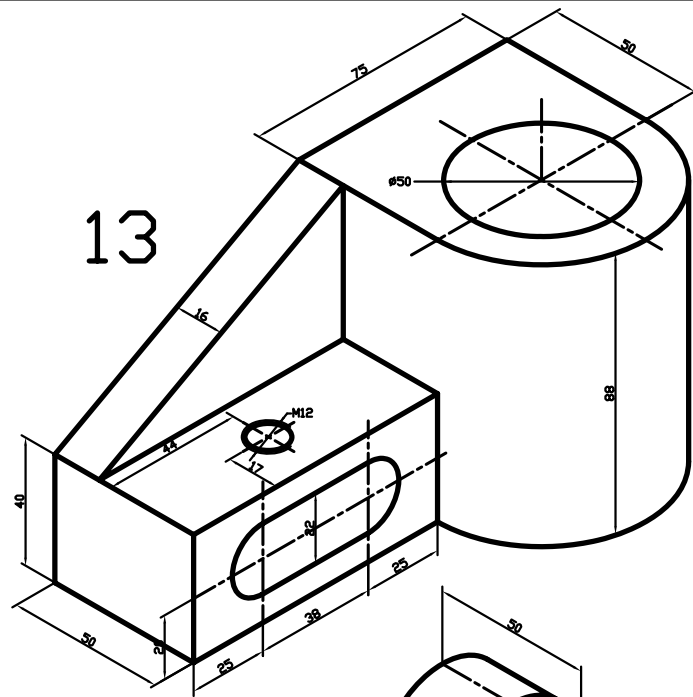


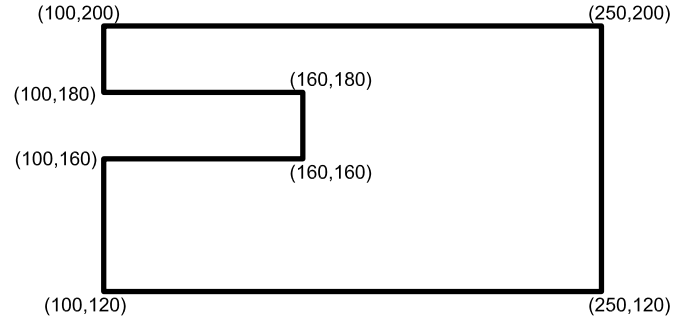
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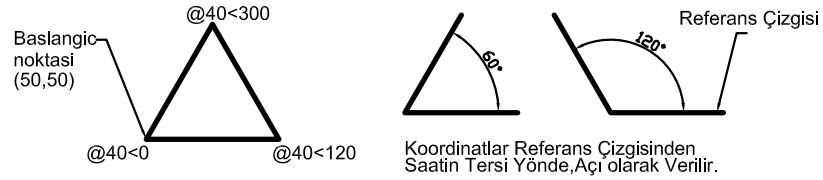
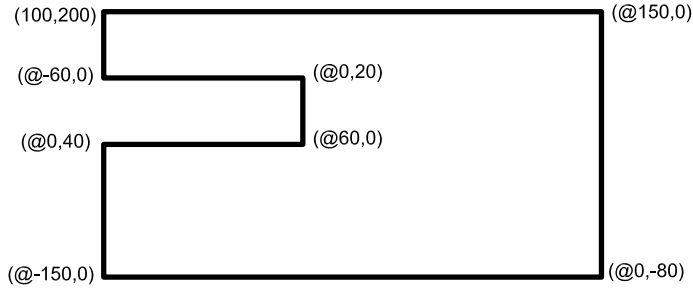
22



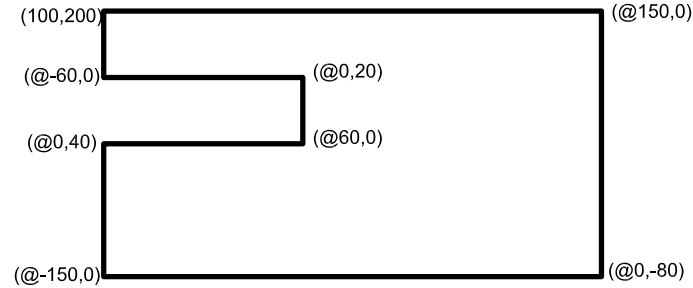




Klavyeden Koordinat Girerek Çizgi Çizmek - Mutlak Koordinat

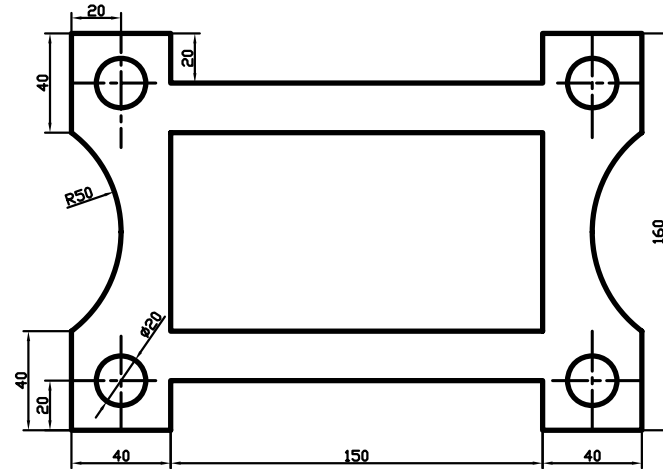
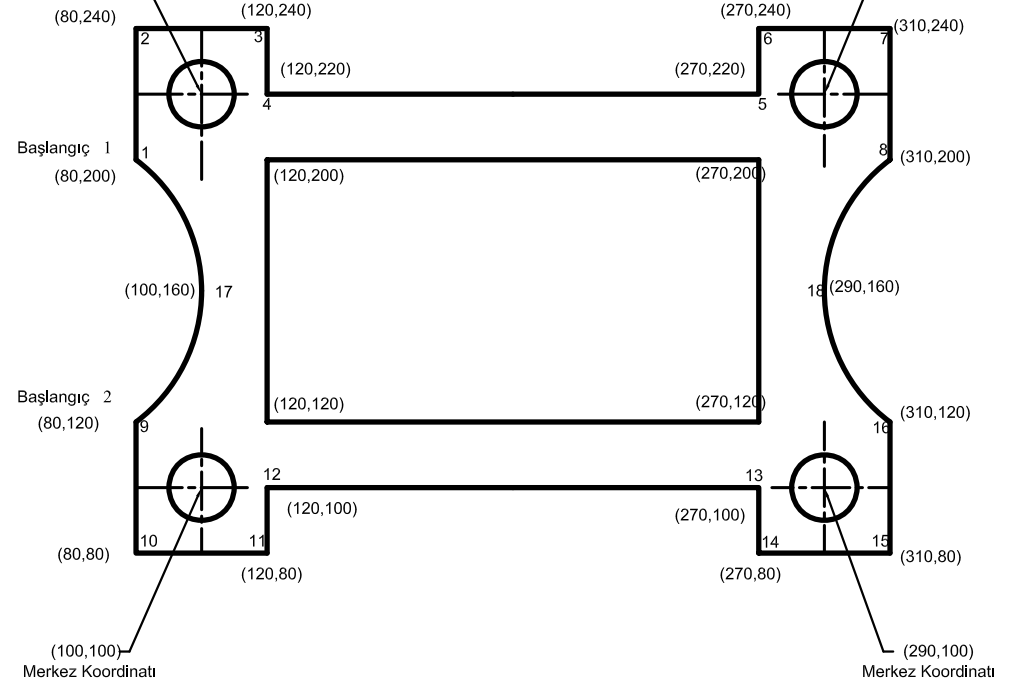


Klavyeden Koordinat Girerek Çizgi Çizmek - Artışlı Koordinat

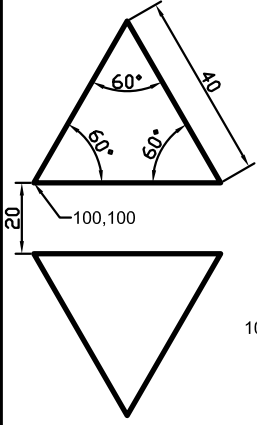


Klavyeden Koordinat Girerek Çizgi Çizmek - Artışlı Koordinat

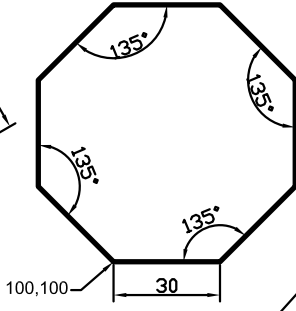
Daire Çap 20
Merkez Koordinatı
(100,220)



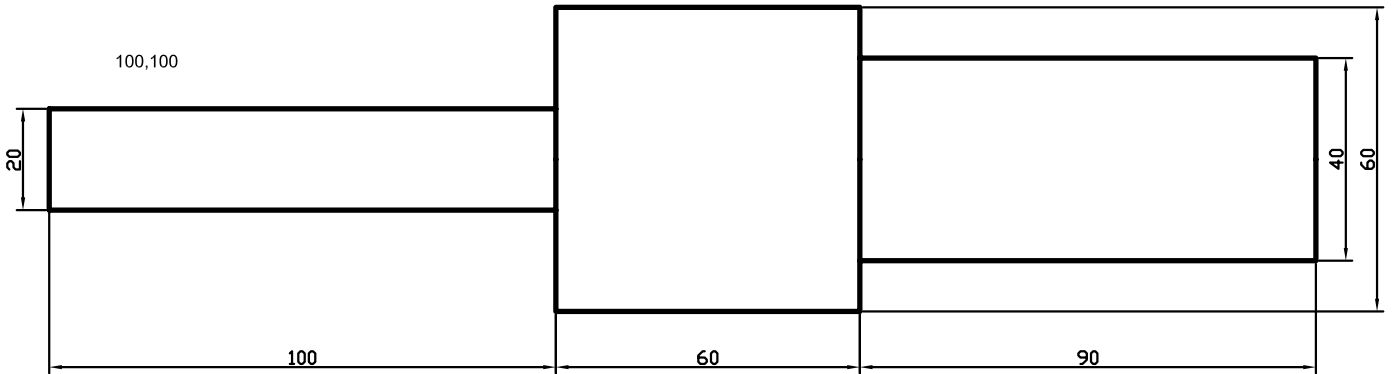
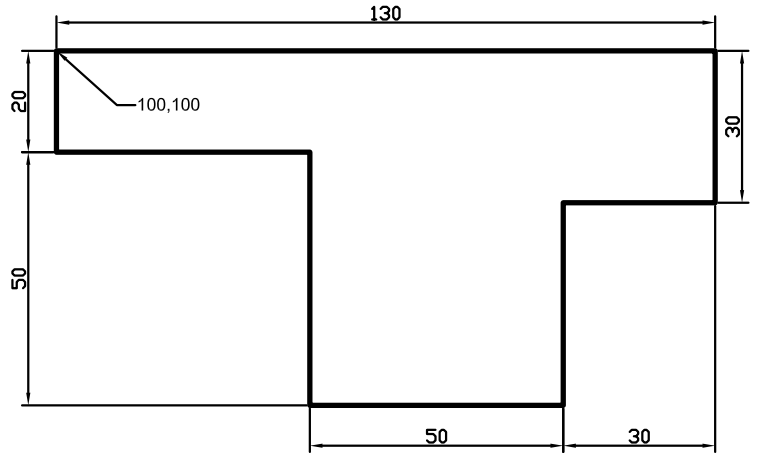
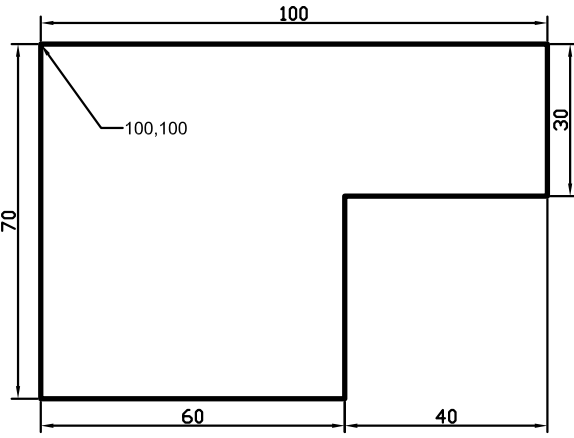
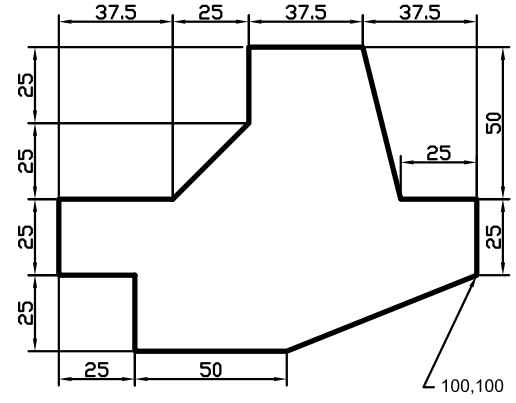
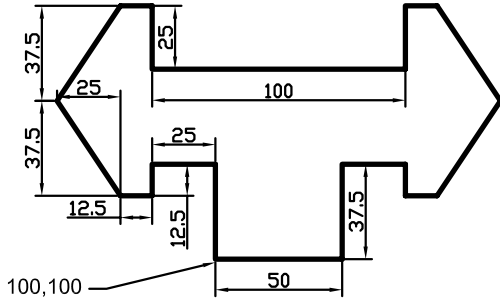
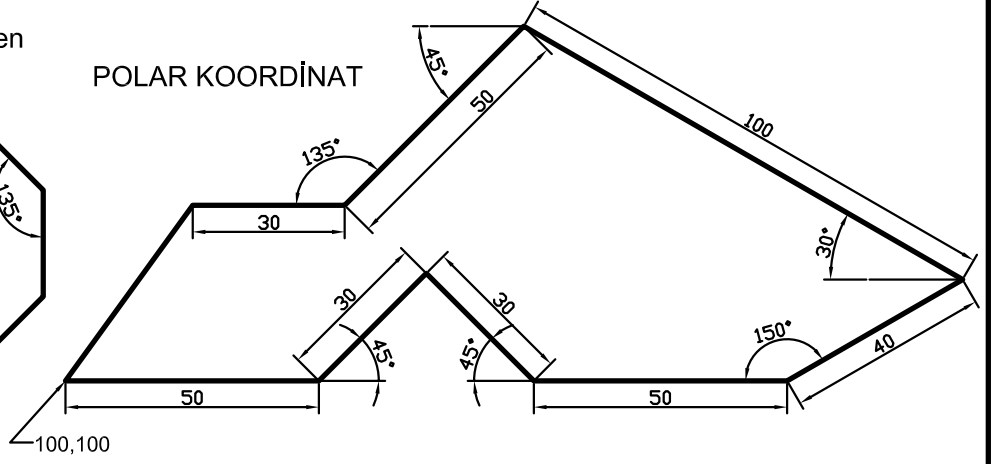
Eşkenar üçgen

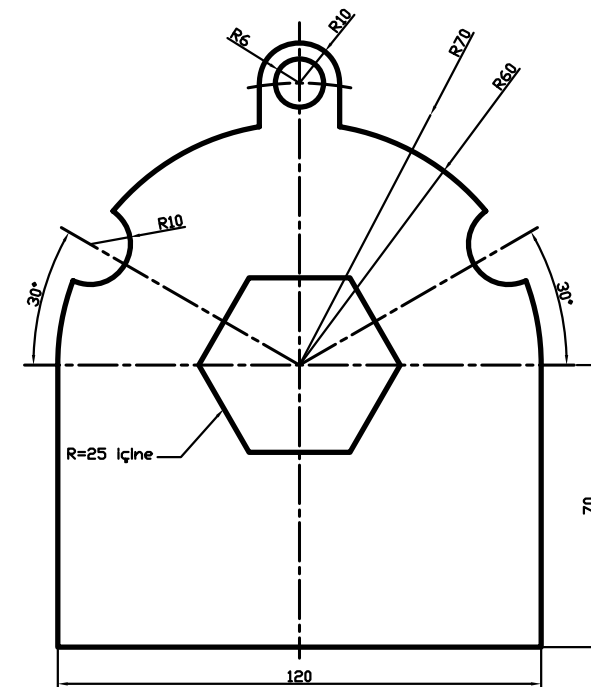
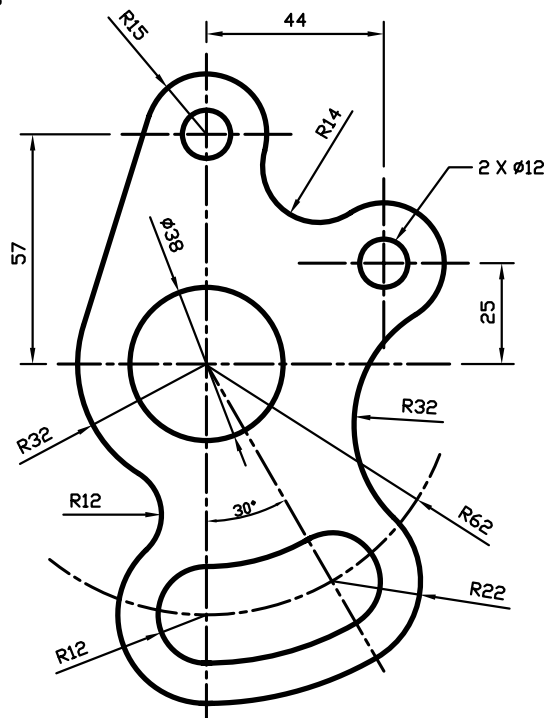
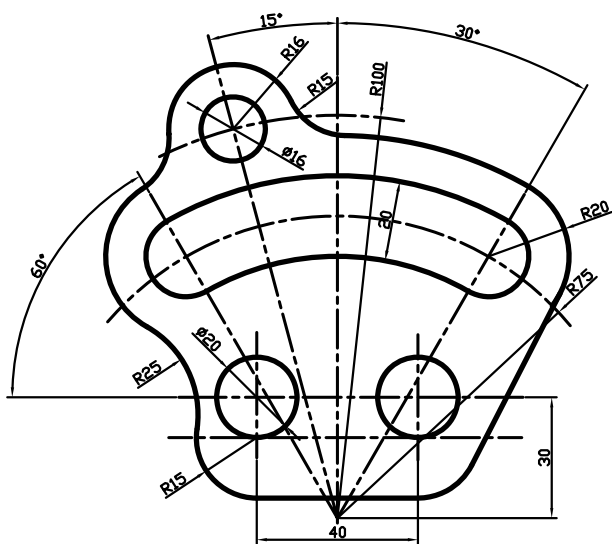
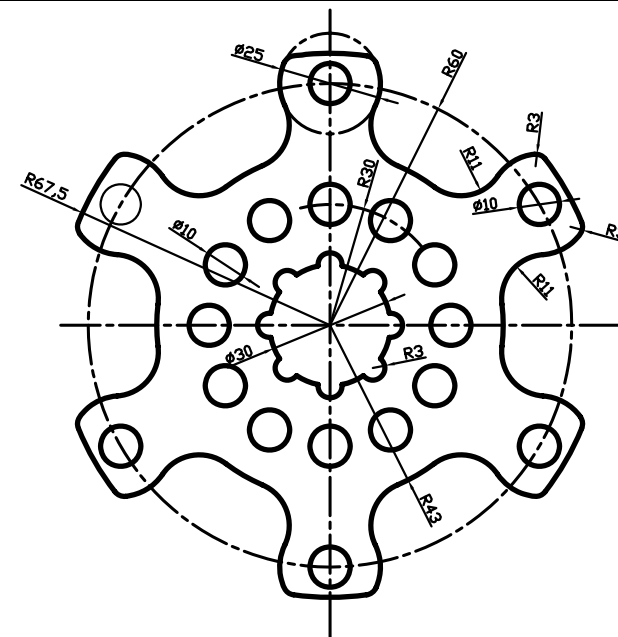
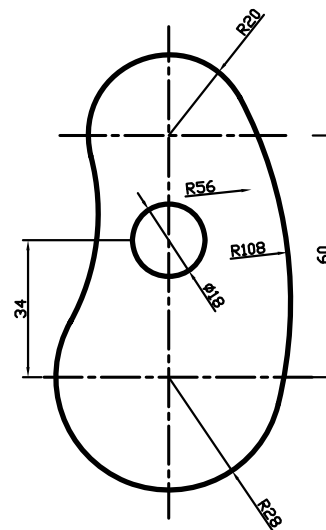
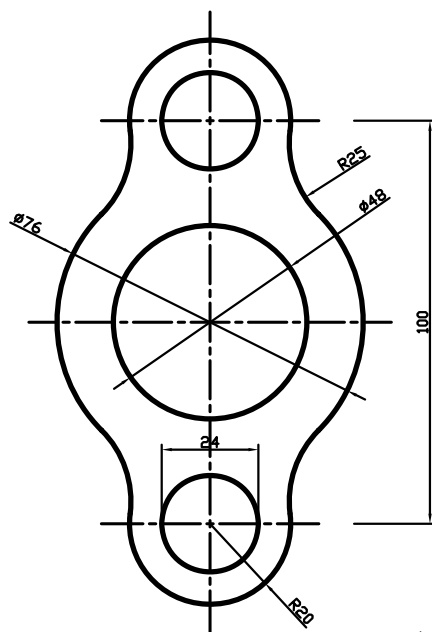
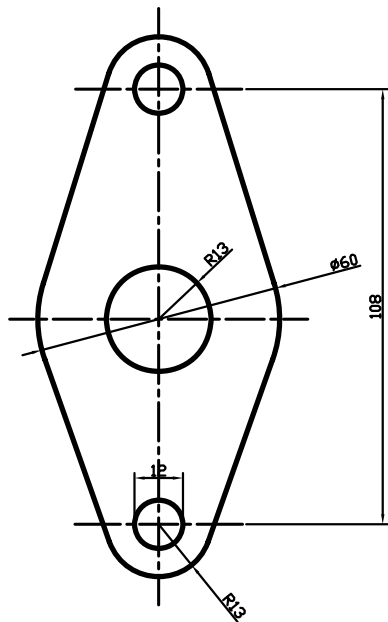


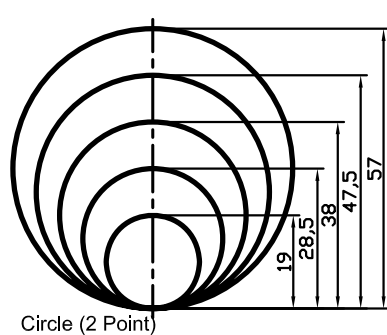
Düzgün Sekizgen



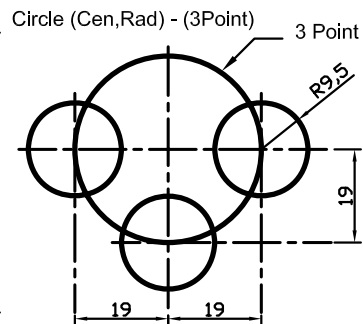
POLAR KOORDİNAT







Circle (2 Point)



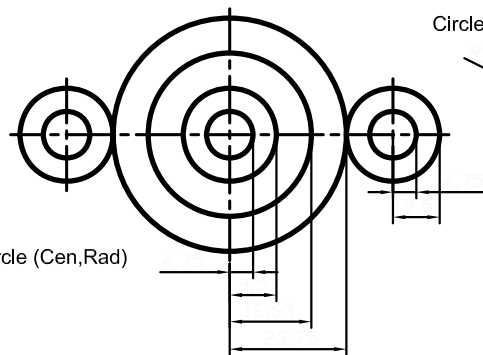
Circle (Cen,Rad) - (3Point)

3 Point

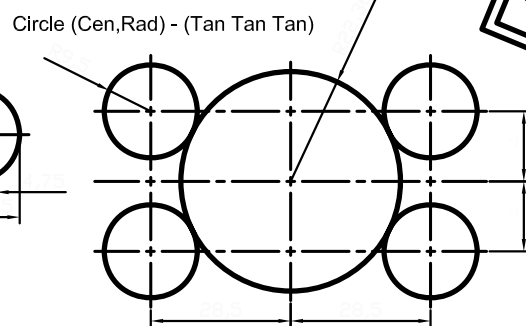
R9.5

19

19

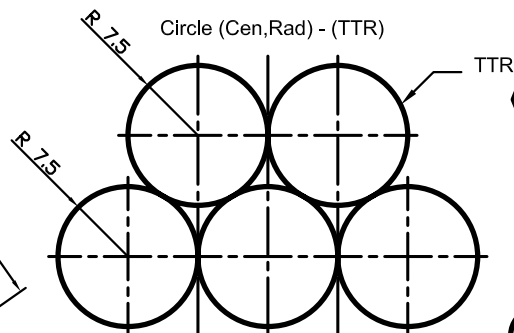
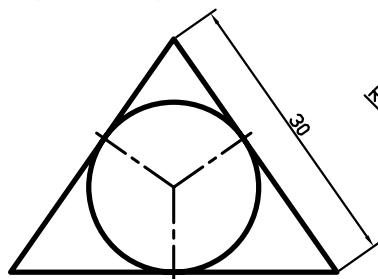


Circle (Cen,Rad)



Circle (Cen,Rad) - (Tan Tan Tan)

Line - Circle (Tan Tan Tan)



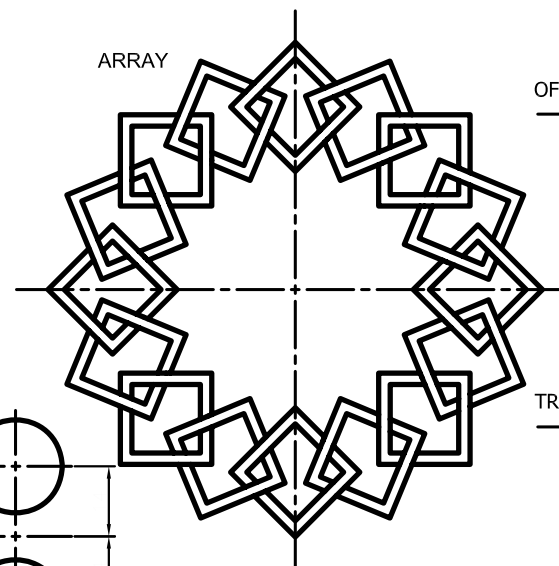
Circle (Cen,Rad) - (TTR)

TTR

R 7.5

R 7.5

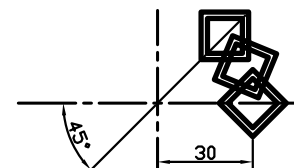
28



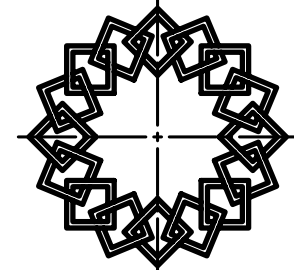
ARRAY

OFFSET

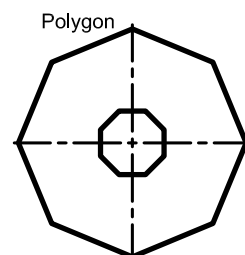
TRIM



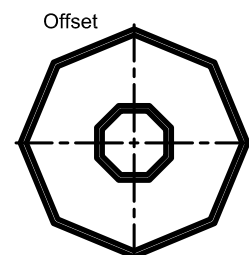
POLAR ARRAY (45° ETRAFINDA 3 TANE)



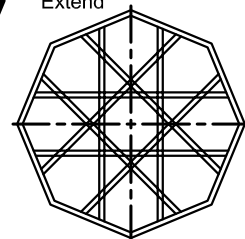
POLAR ARRAY (360° ETRAFINDA 16 TANE)



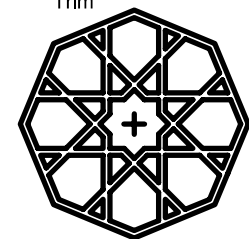
Polygon



Offset

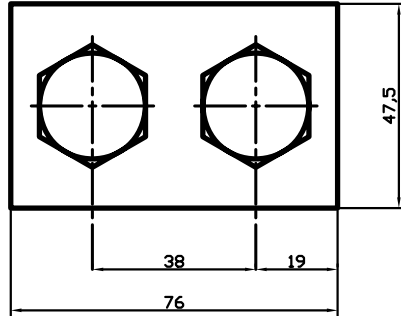
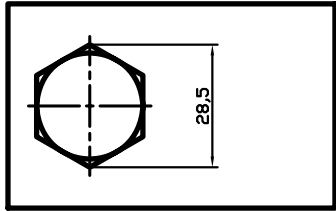


Extend

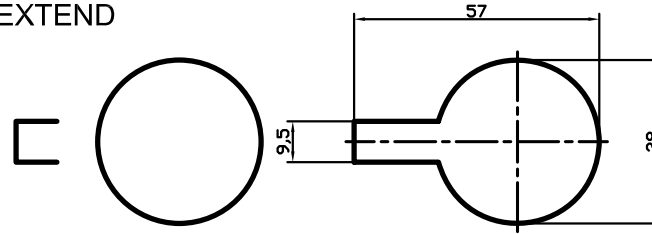


Trim

COPY

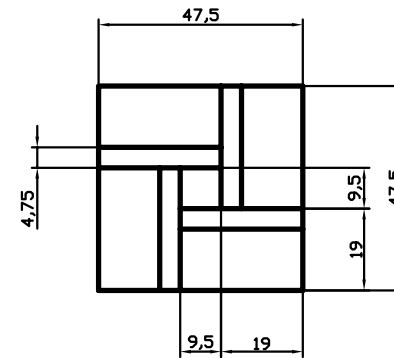
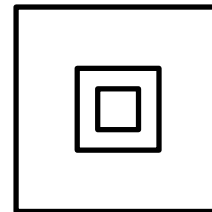
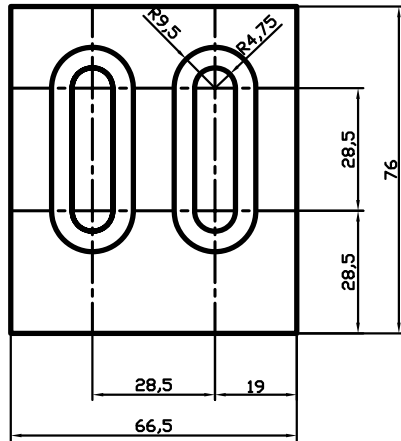
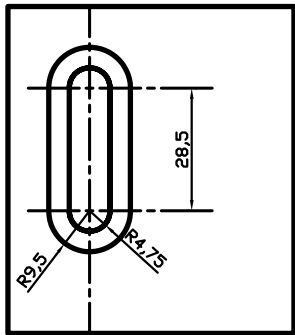
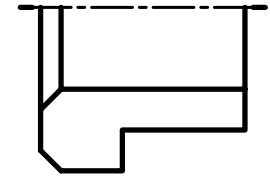


EXTEND

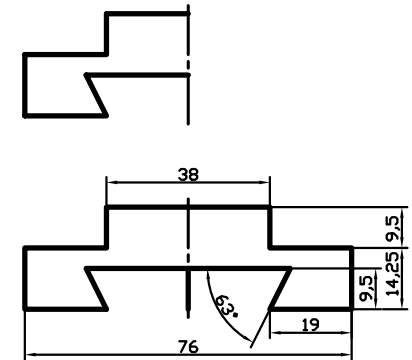
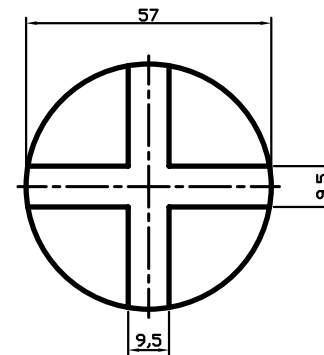
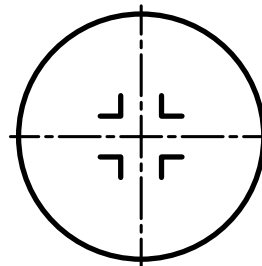
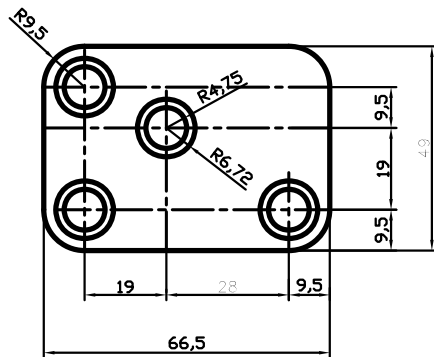
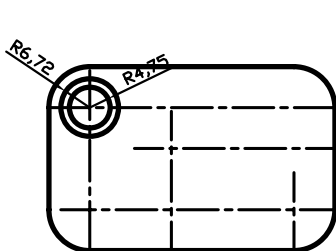
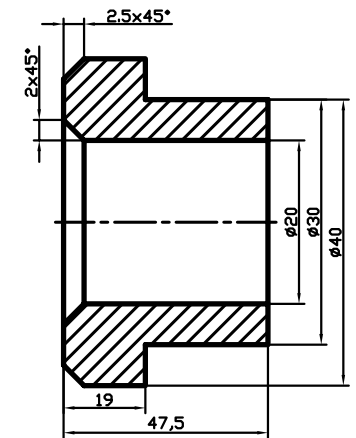


Extend – Trim

MIRROR

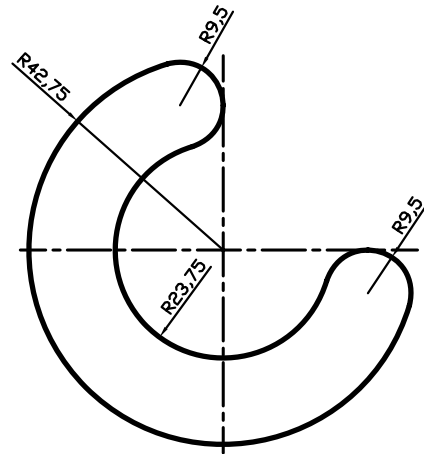
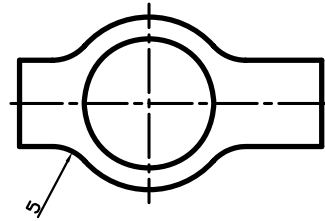
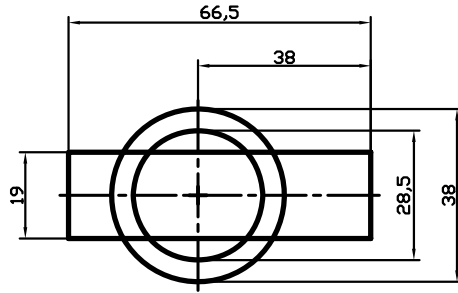
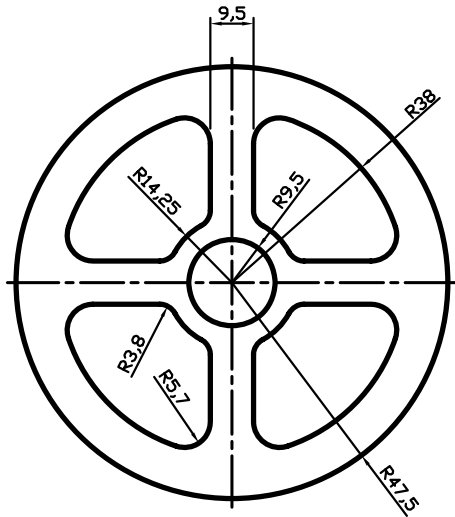
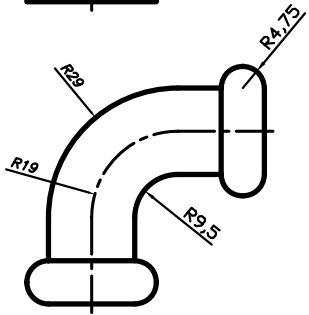
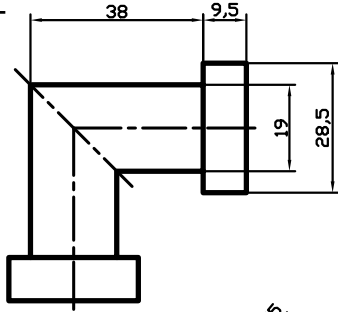


Extend – Trim

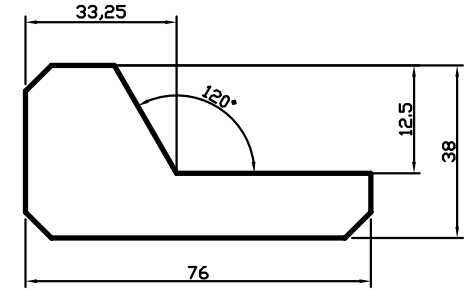
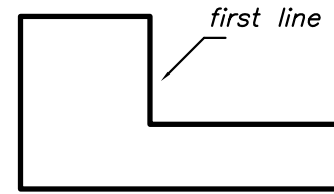


29

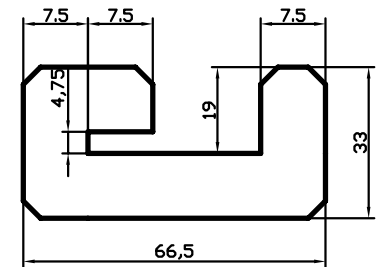
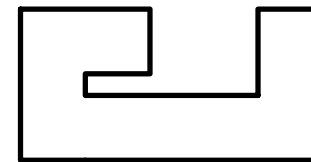
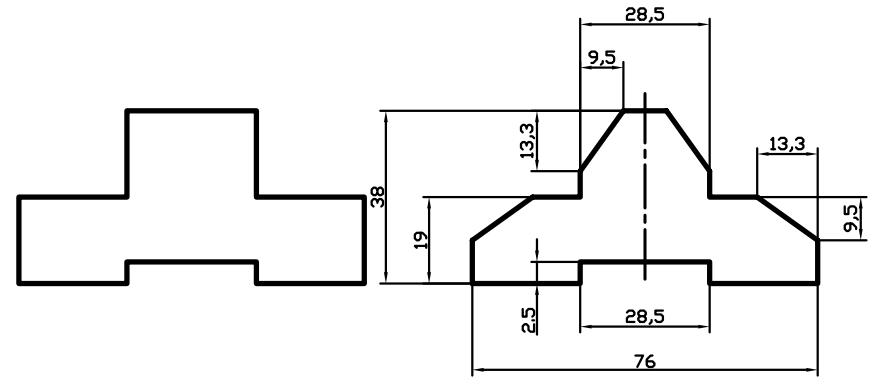
FILLET



CHAMFER

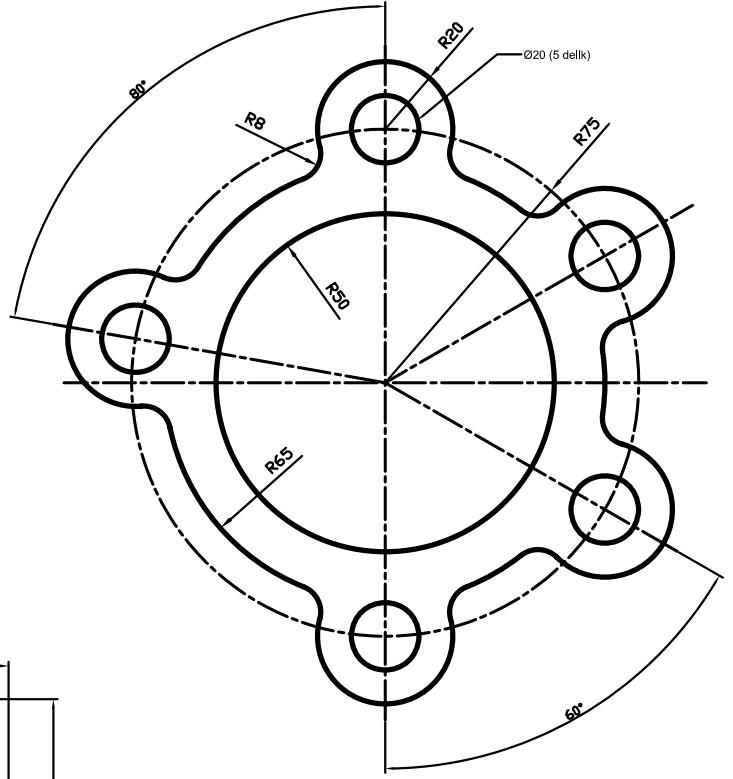
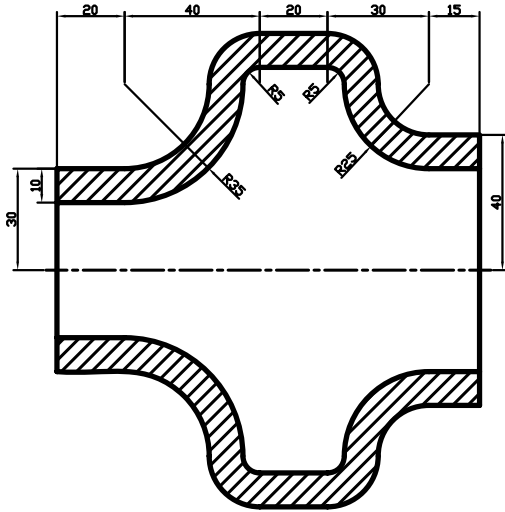


Bütün pah ölçüleri 3x3

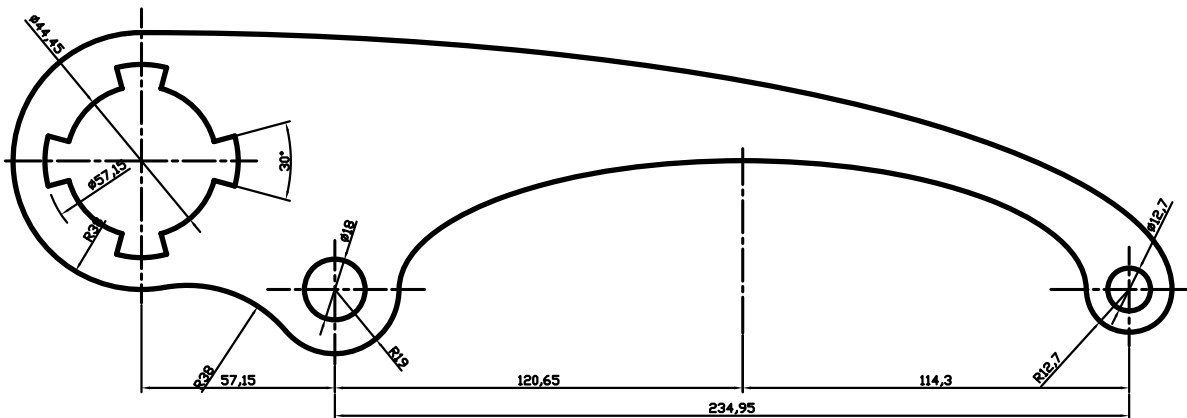
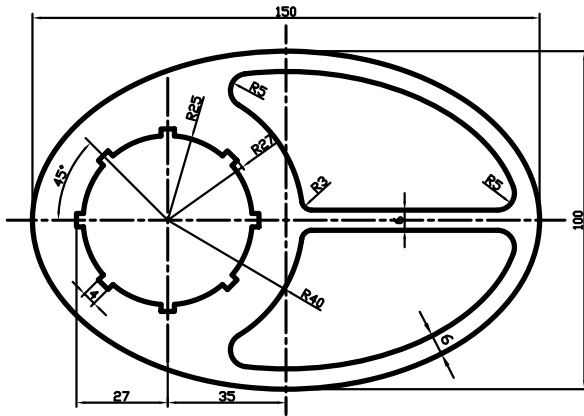


Bütün pah ölçüleri 2x2

Offset ve Mirror Alıştırması

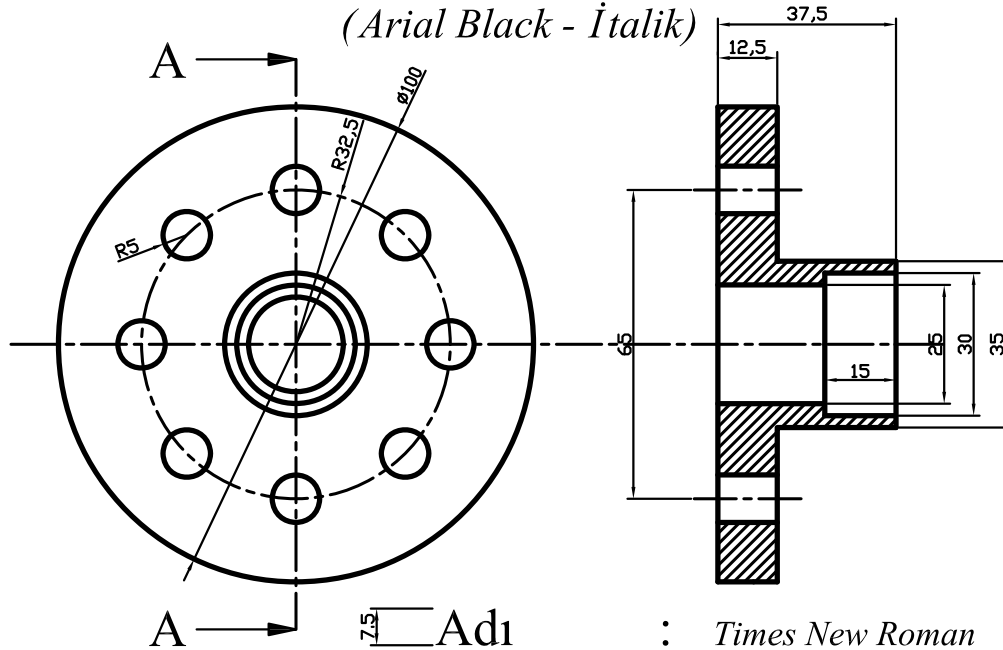


ELİPS Uygulaması



GAZİ ÜNİVERSİTESİ BELTEK AUTO-CAD KURSU

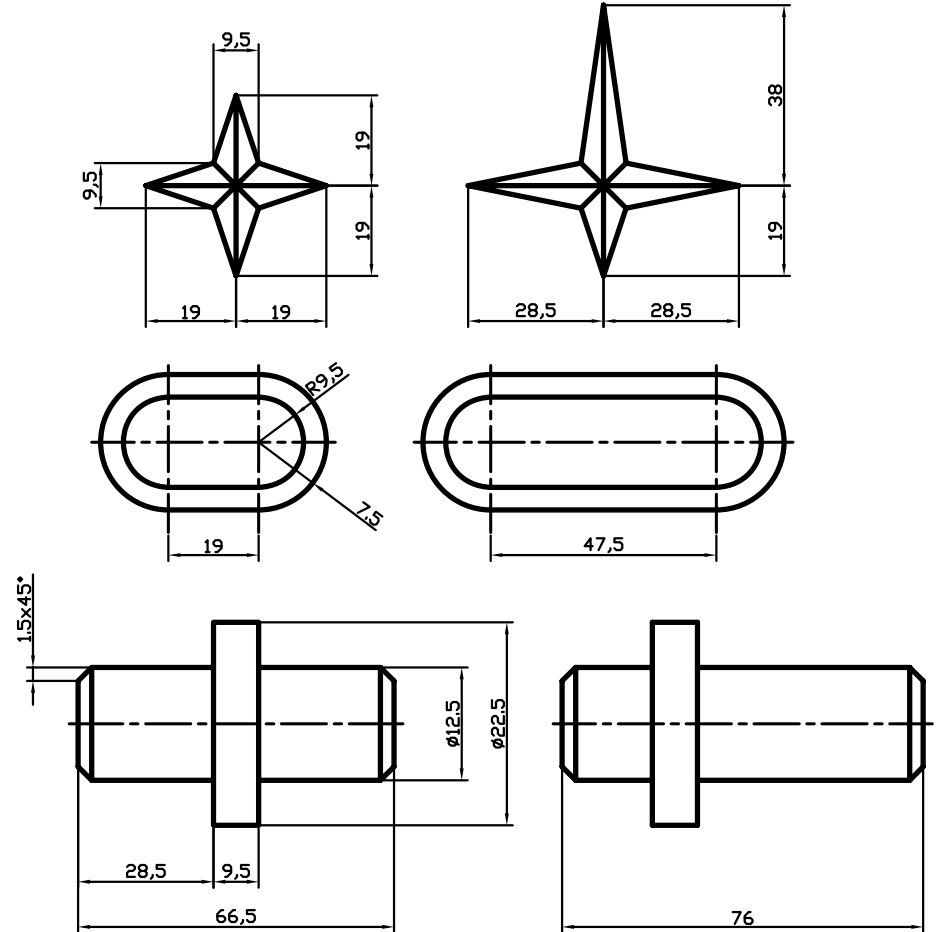
(Arial Black - İtalik)

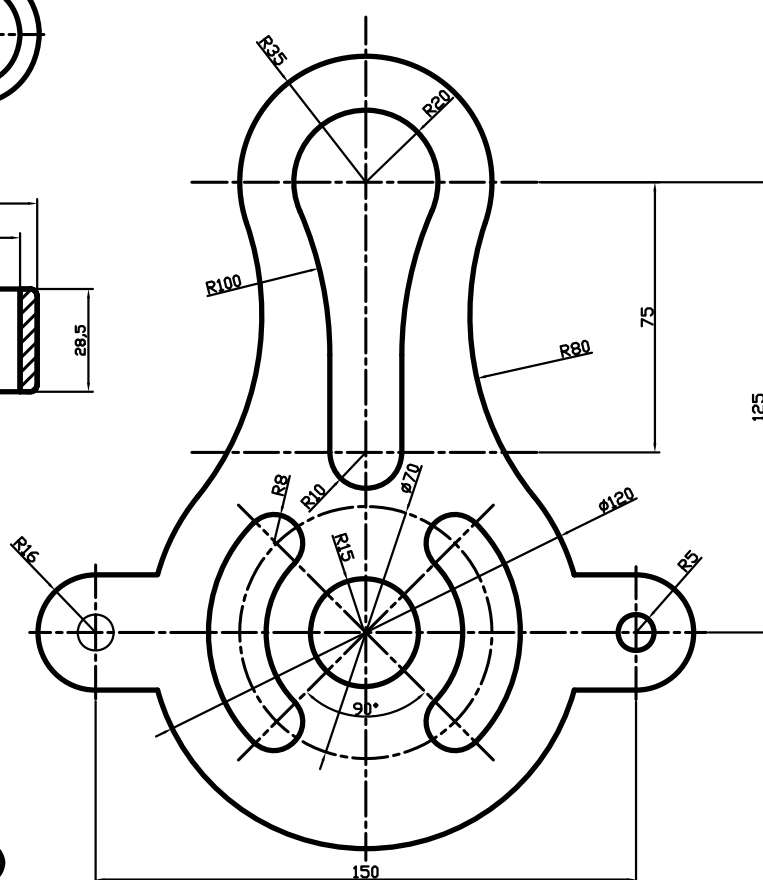
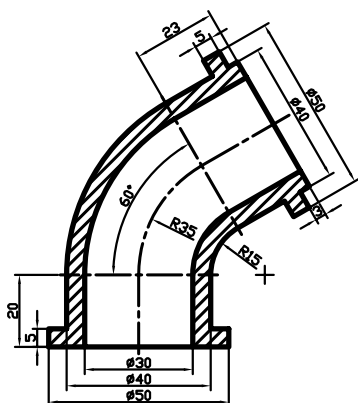
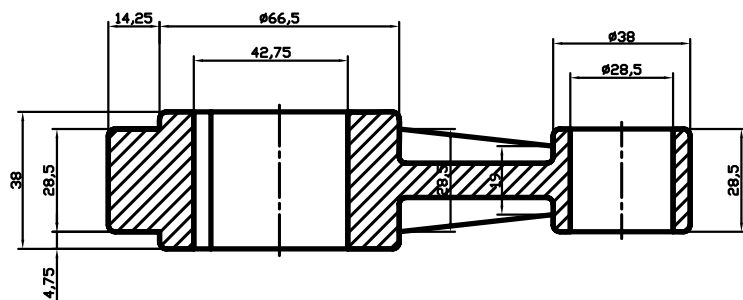
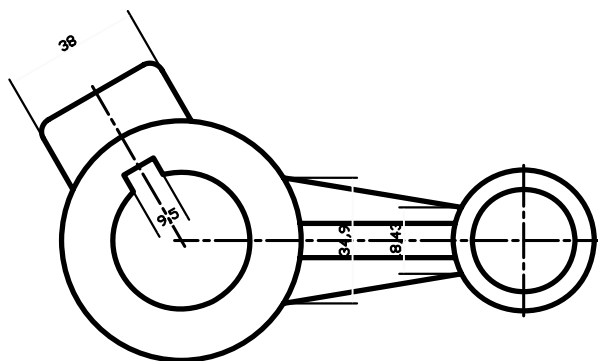
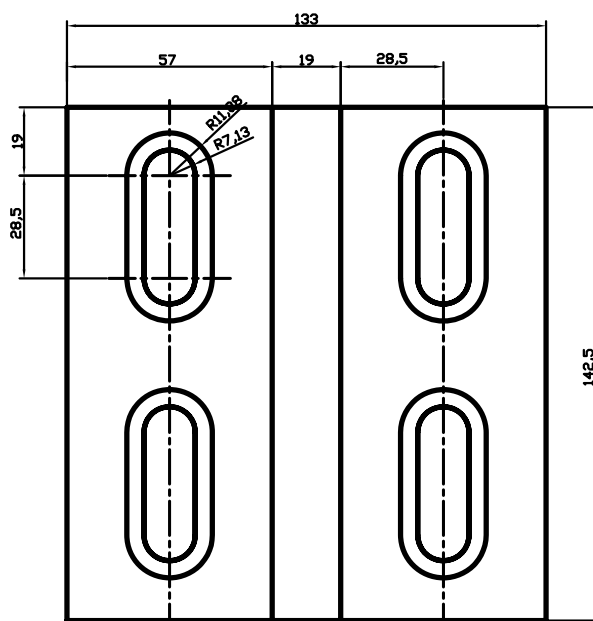
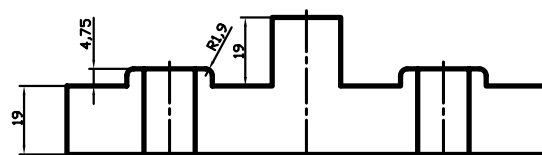
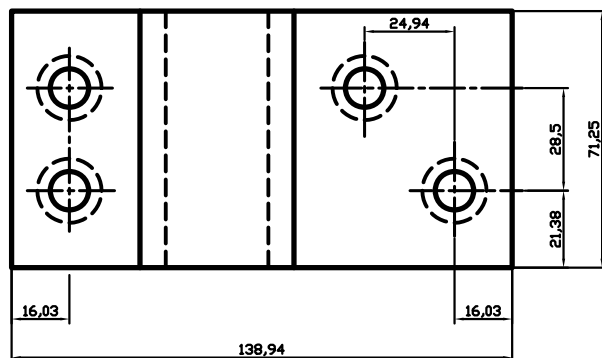


32

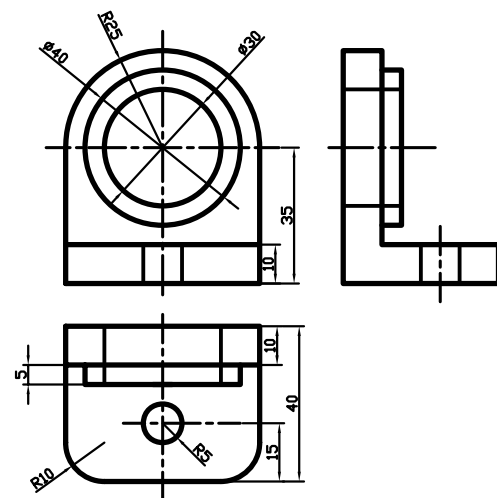
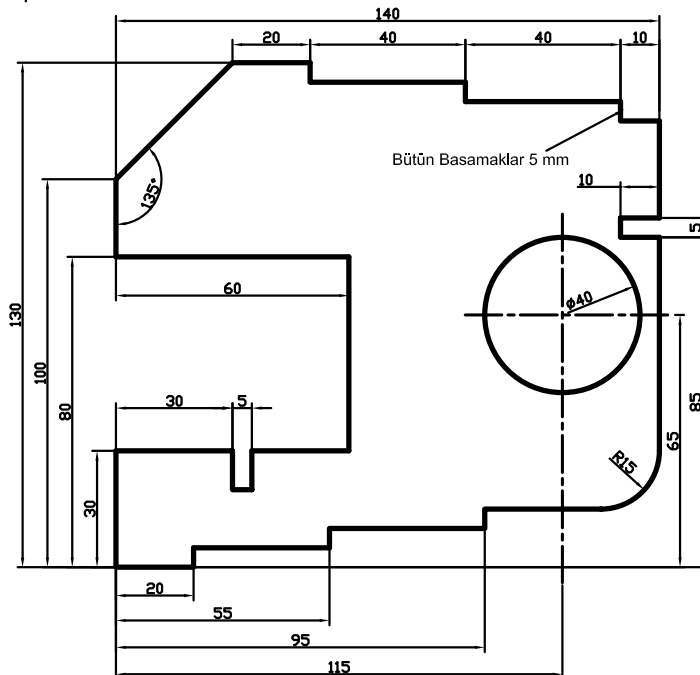
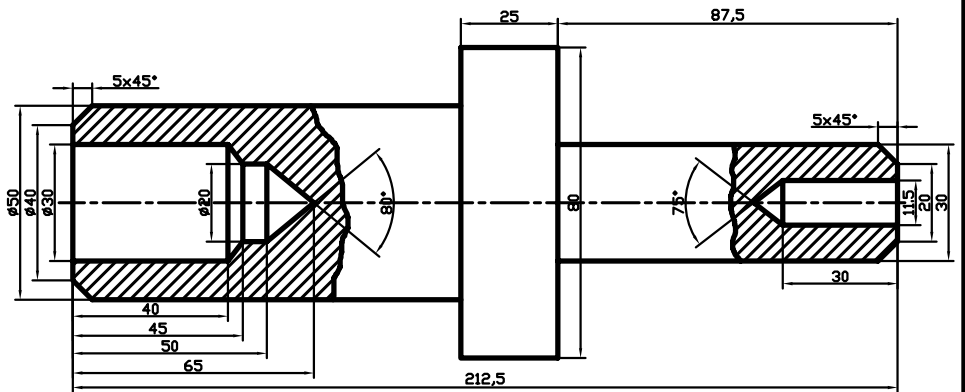
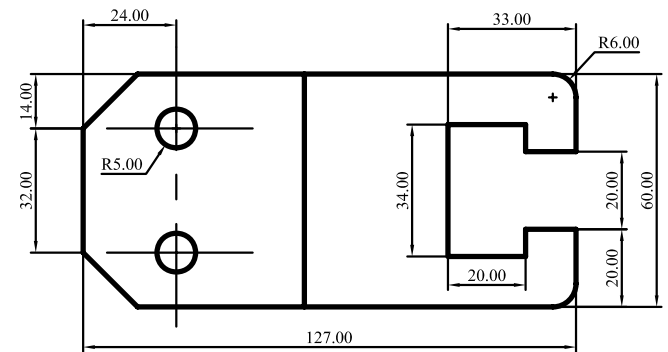
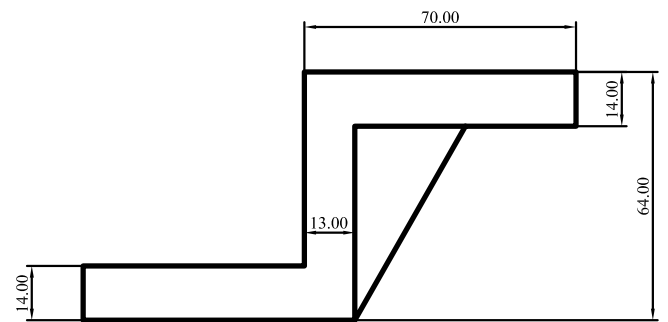
Adı : Times New Roman
Soyadı :
Okul No :

STRETCH

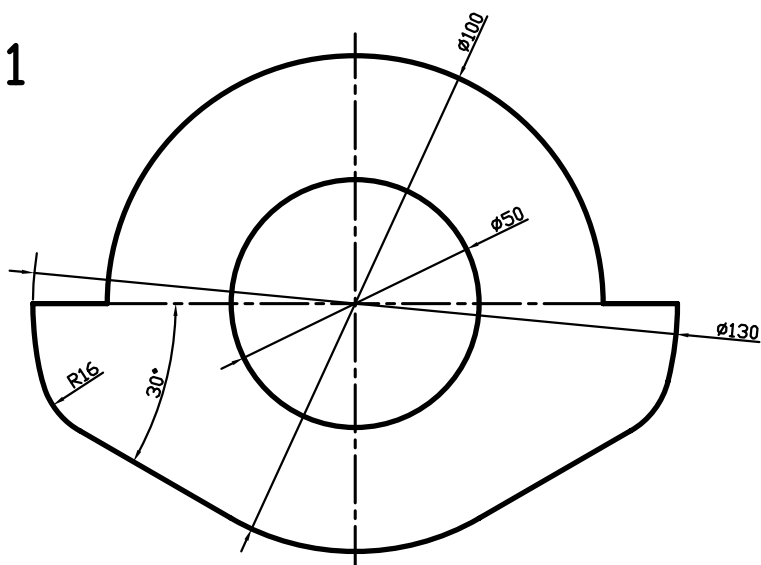




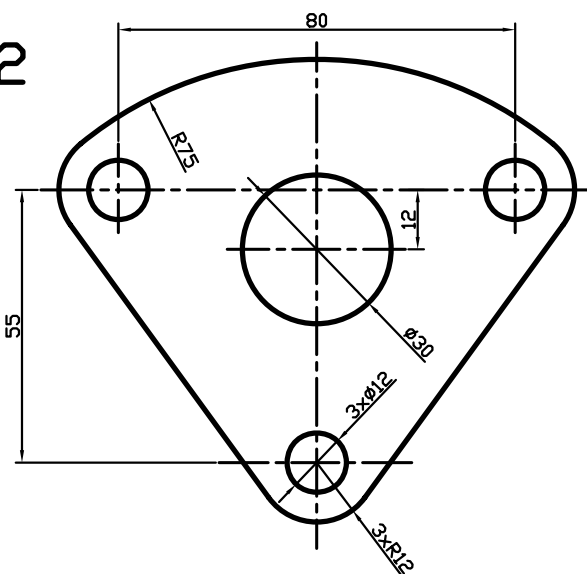
34



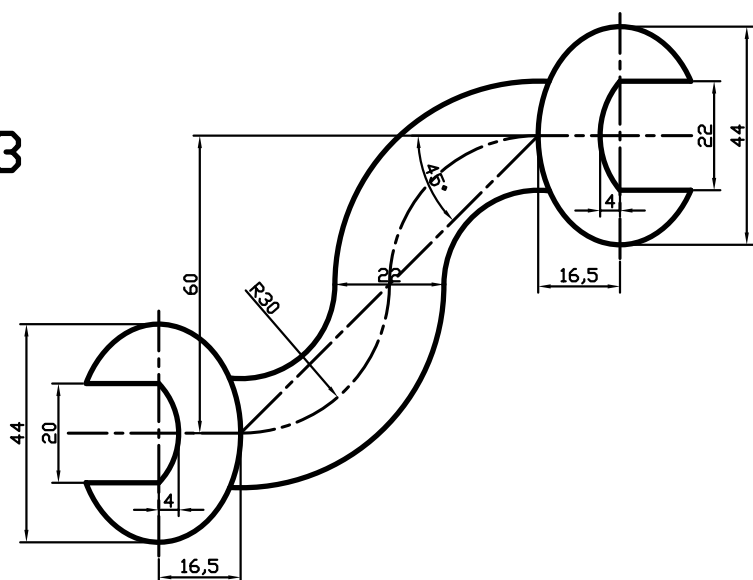
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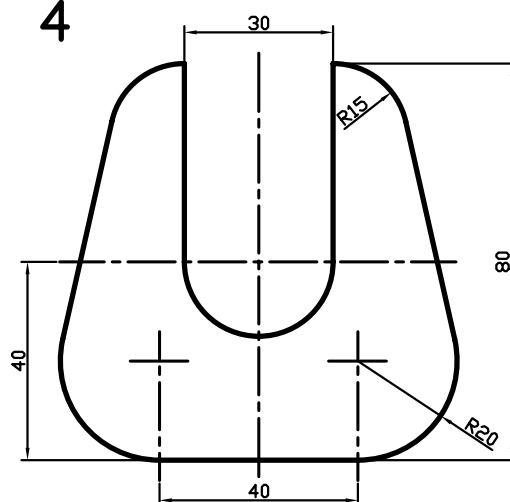
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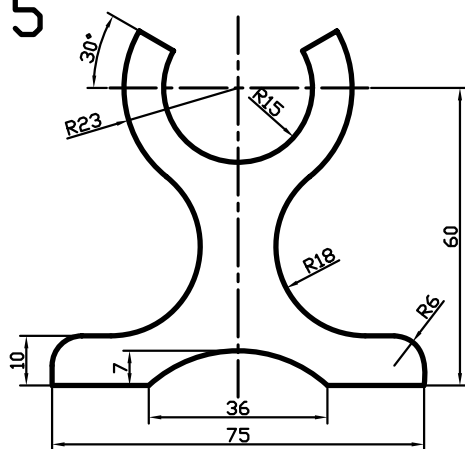
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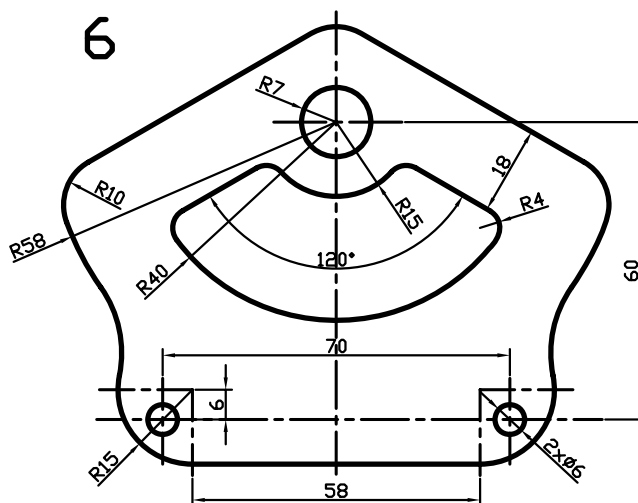
4



5

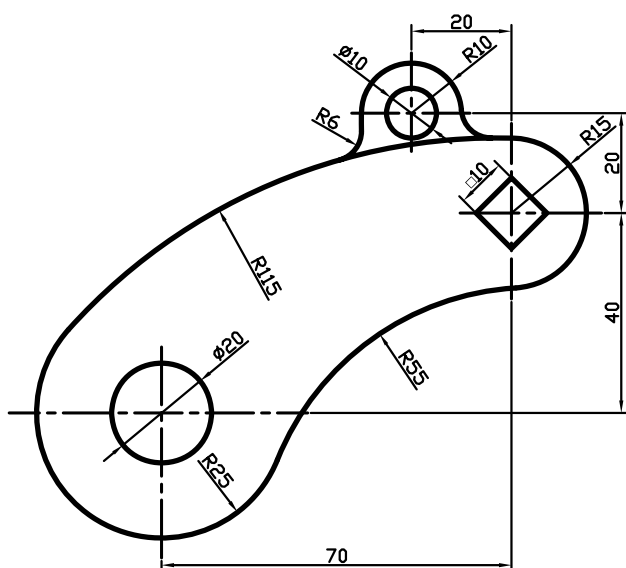


6

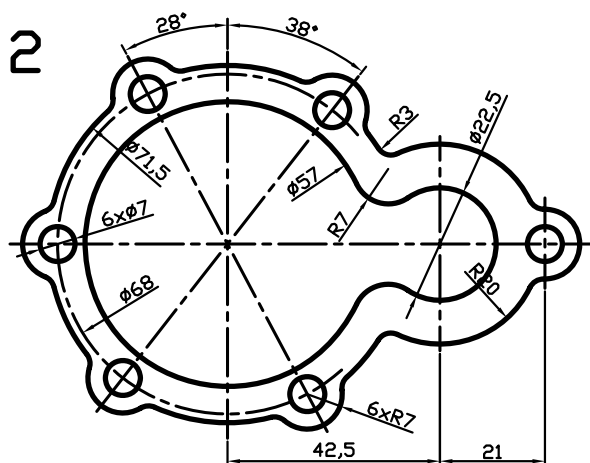


(36)

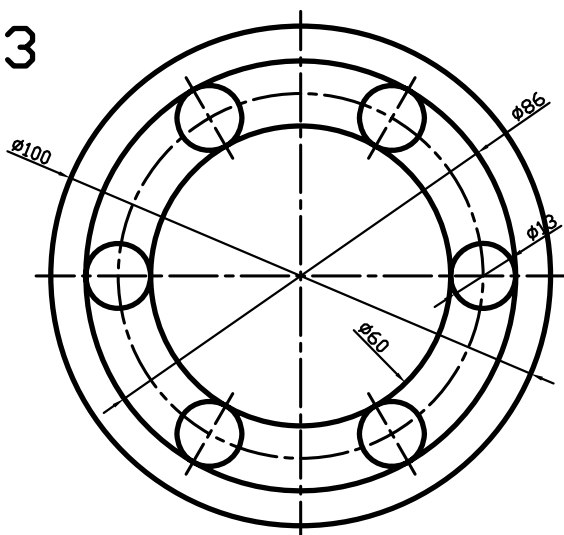
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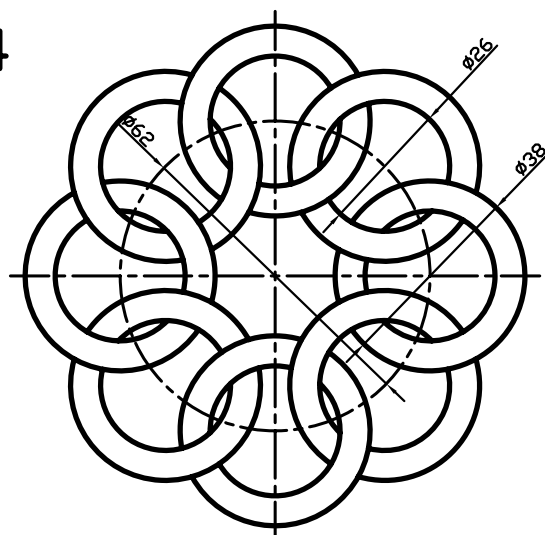
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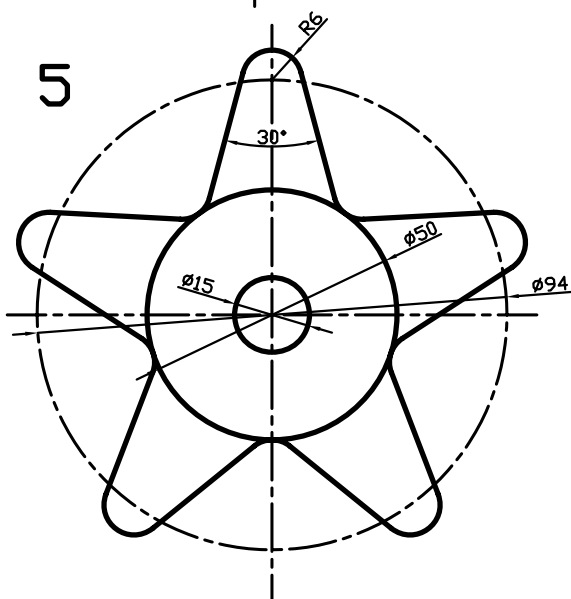
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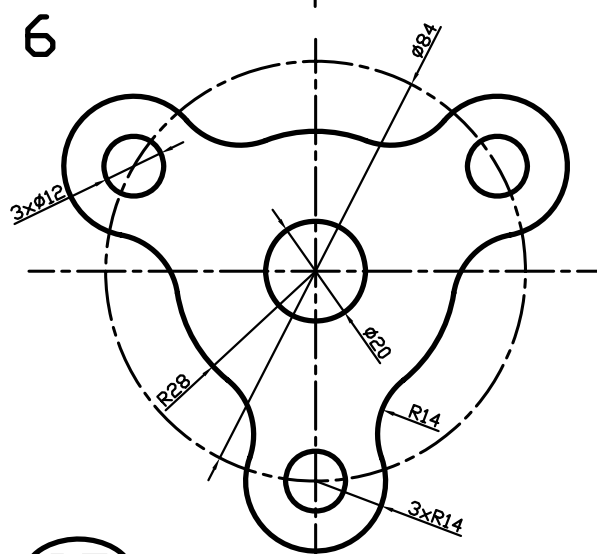
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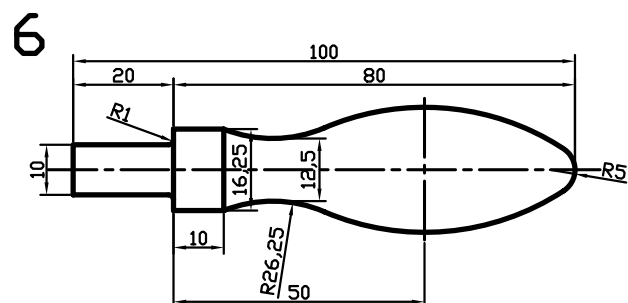
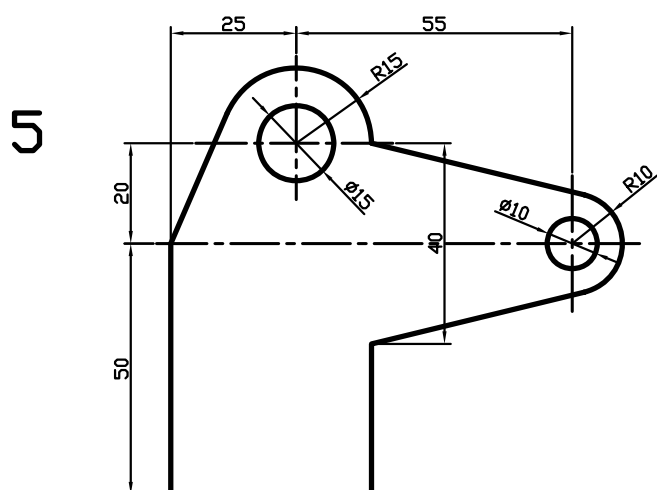
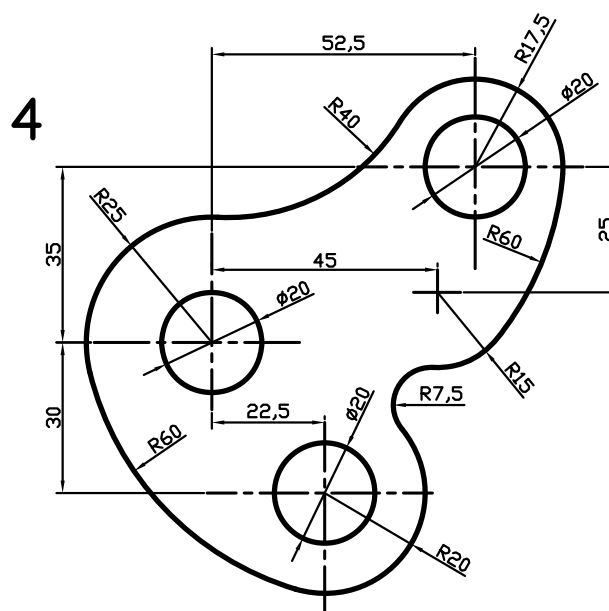
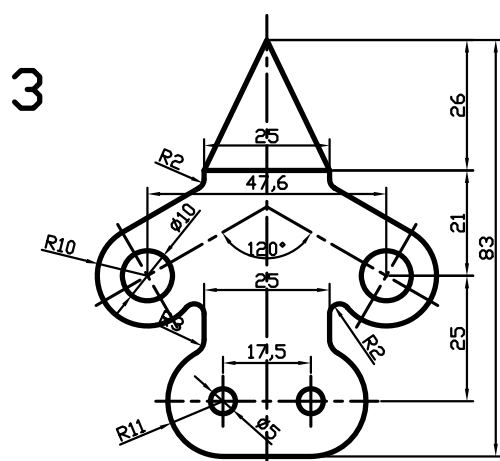
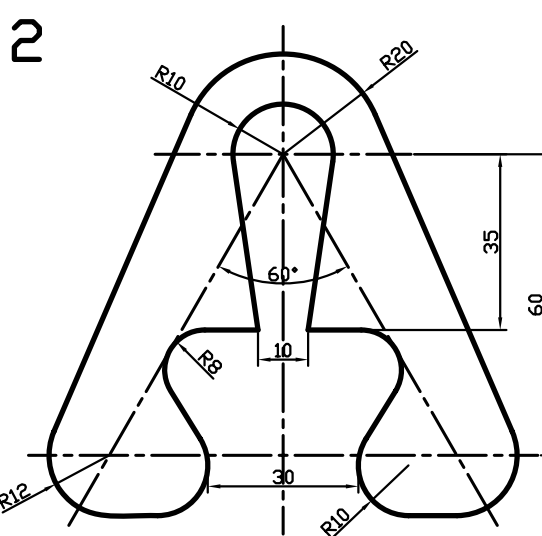
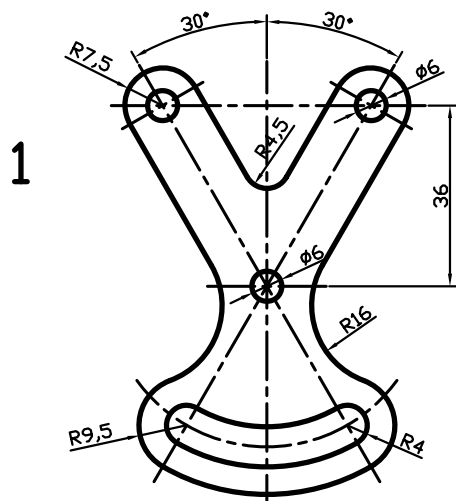
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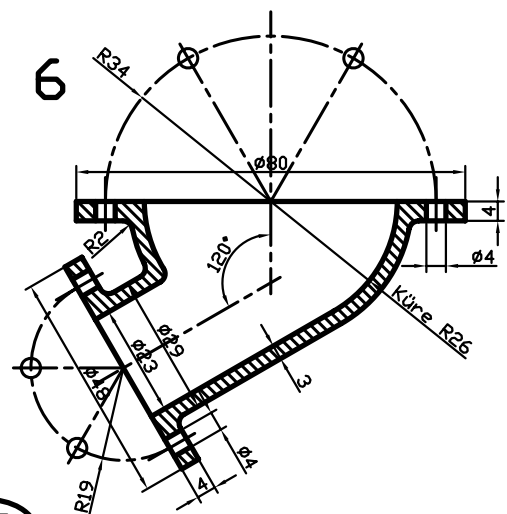
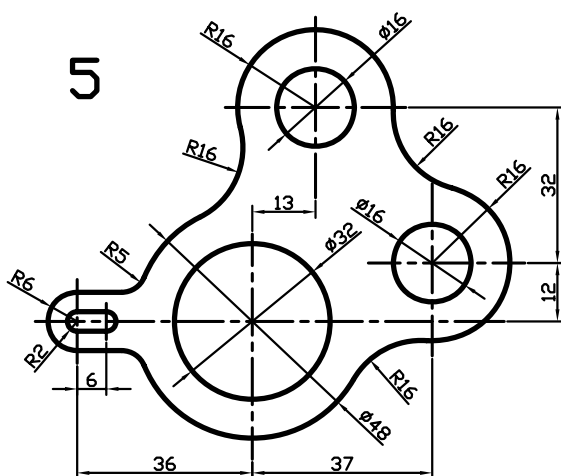
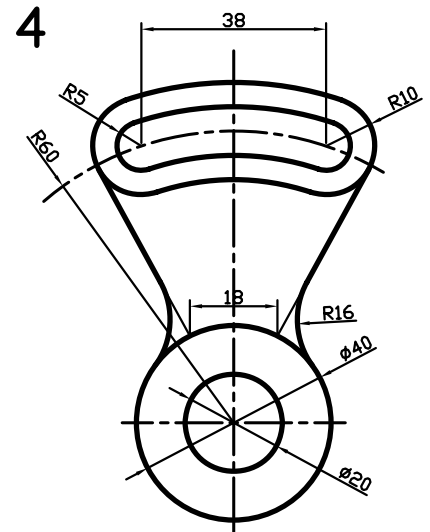
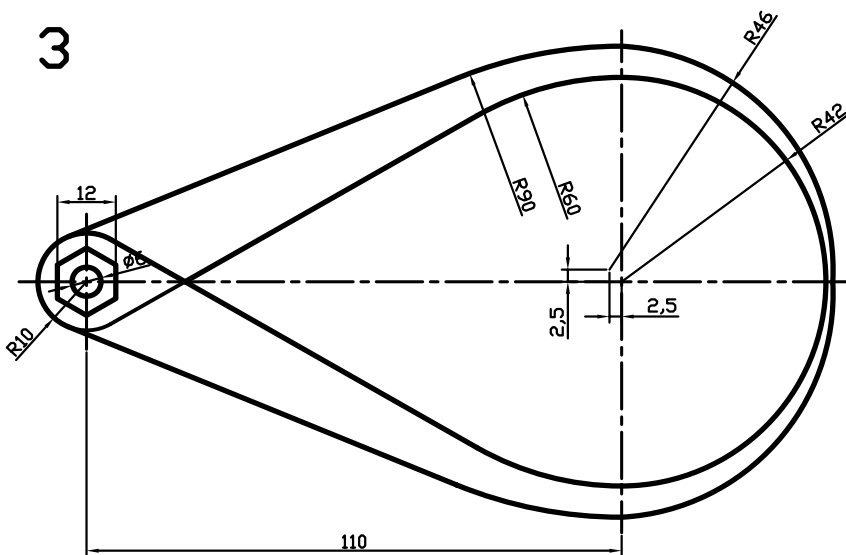
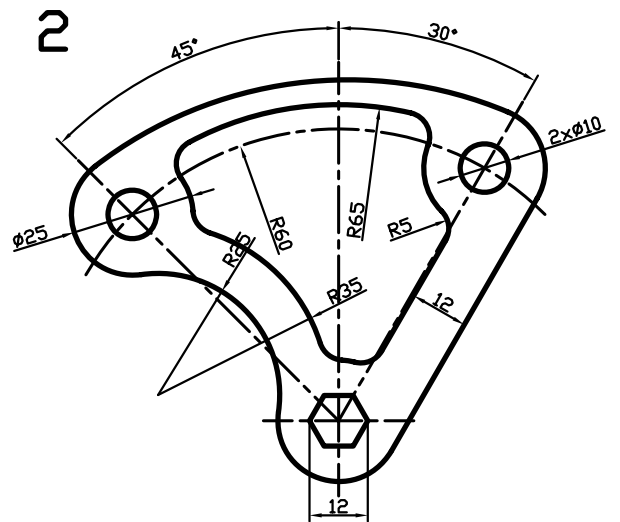
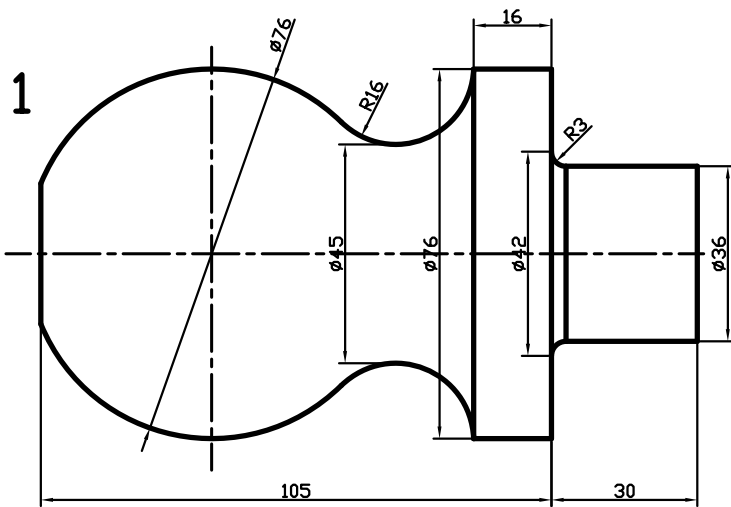


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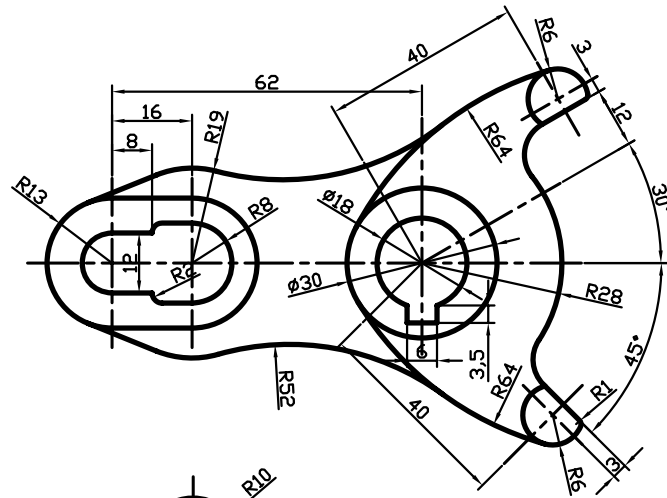


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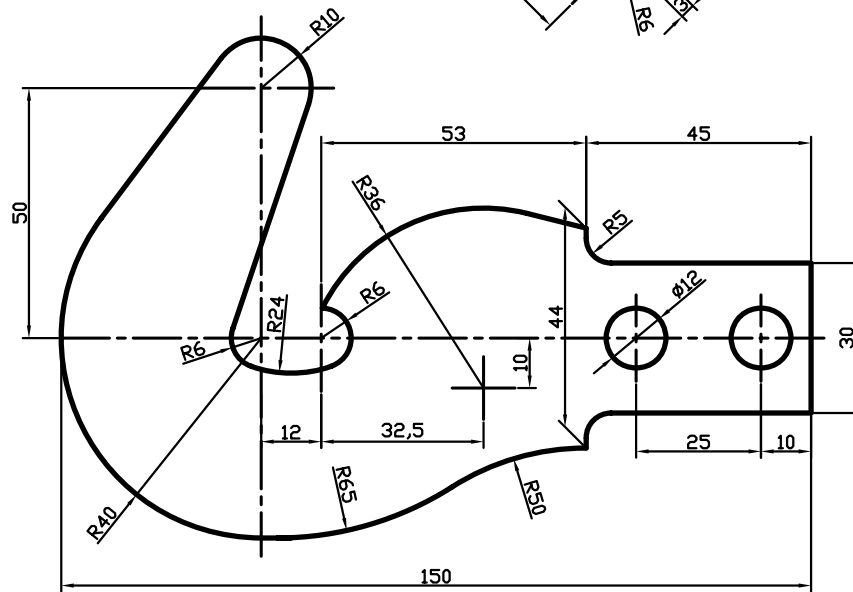




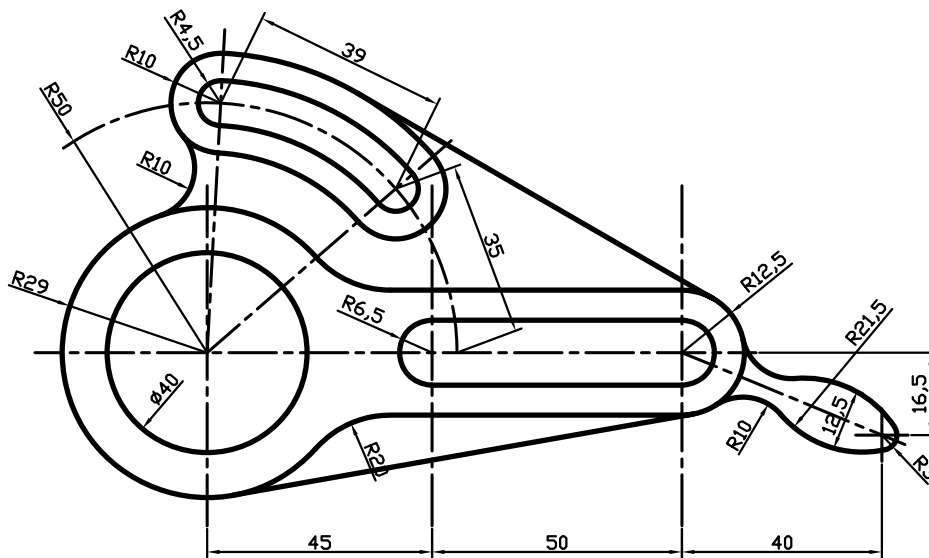
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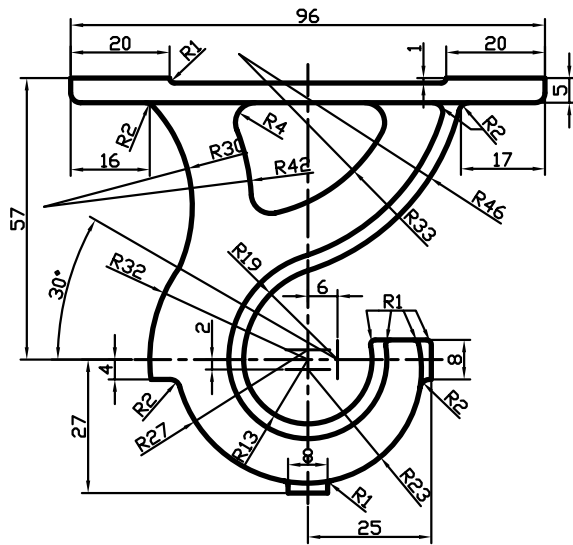
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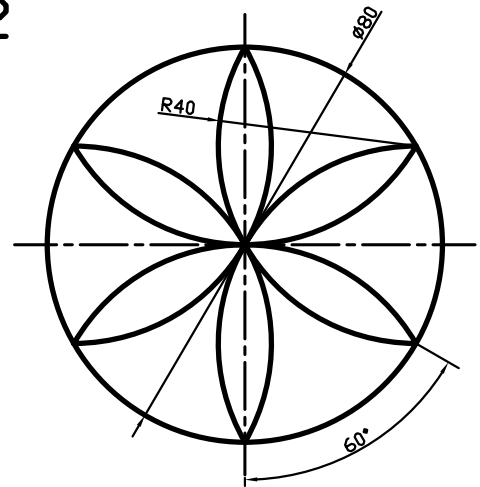
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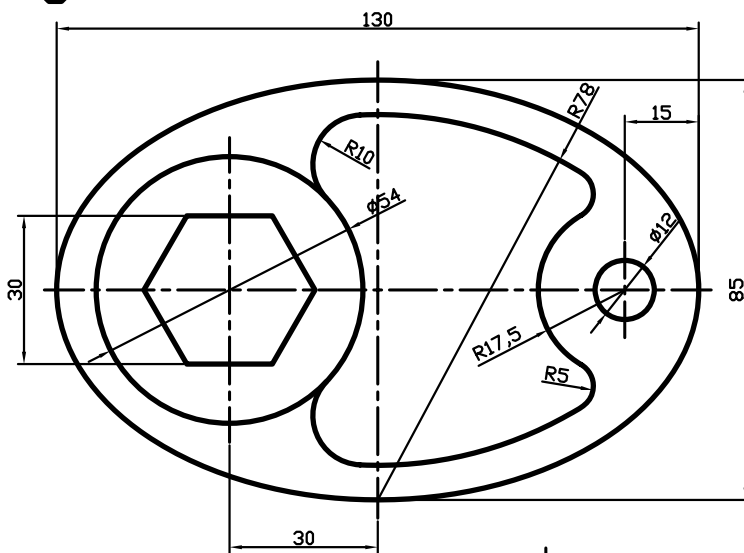
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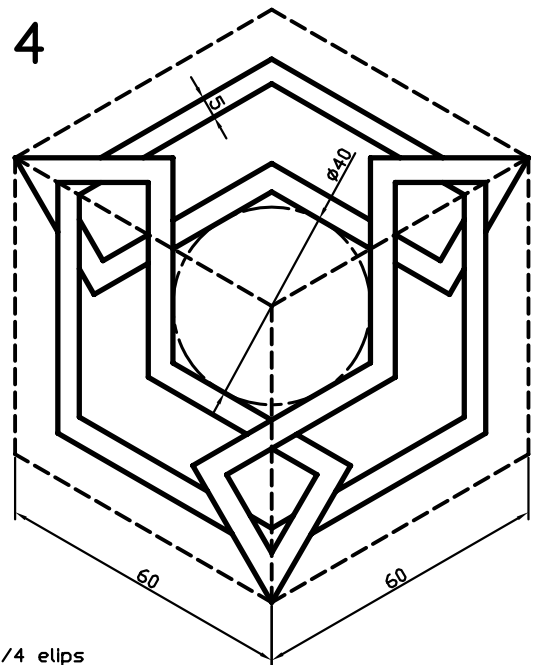
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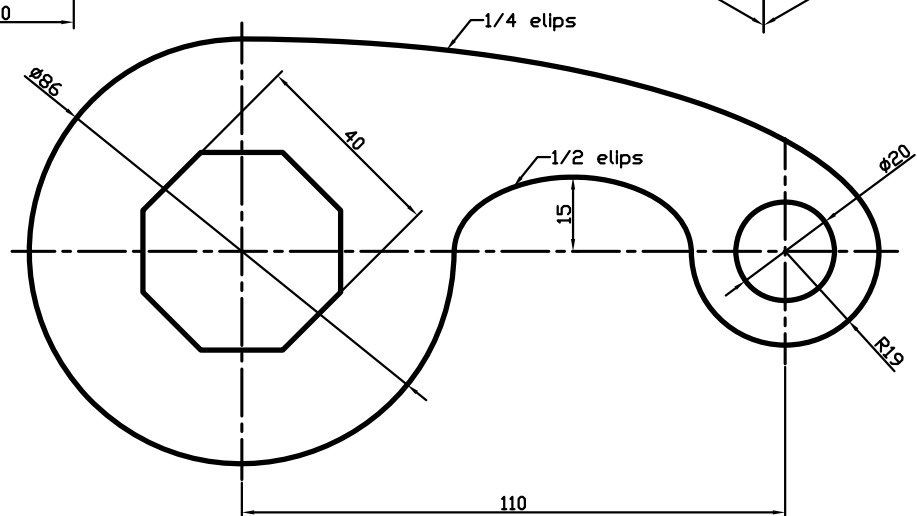
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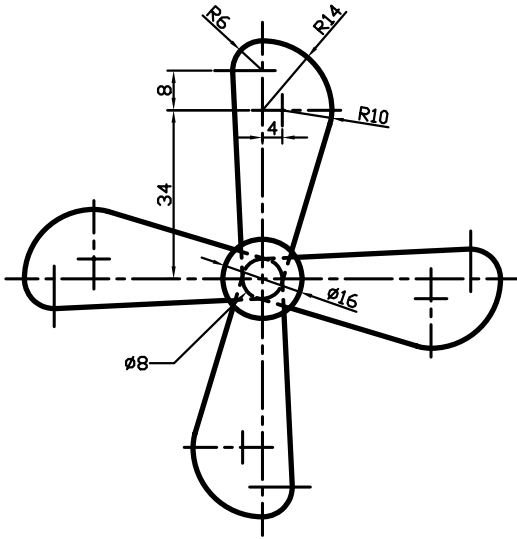


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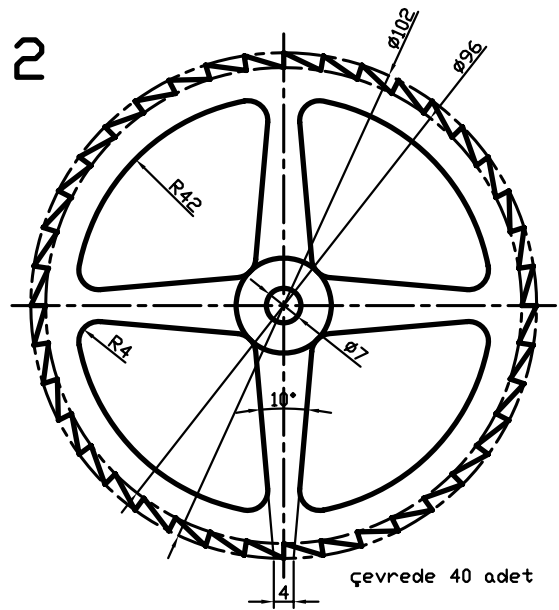


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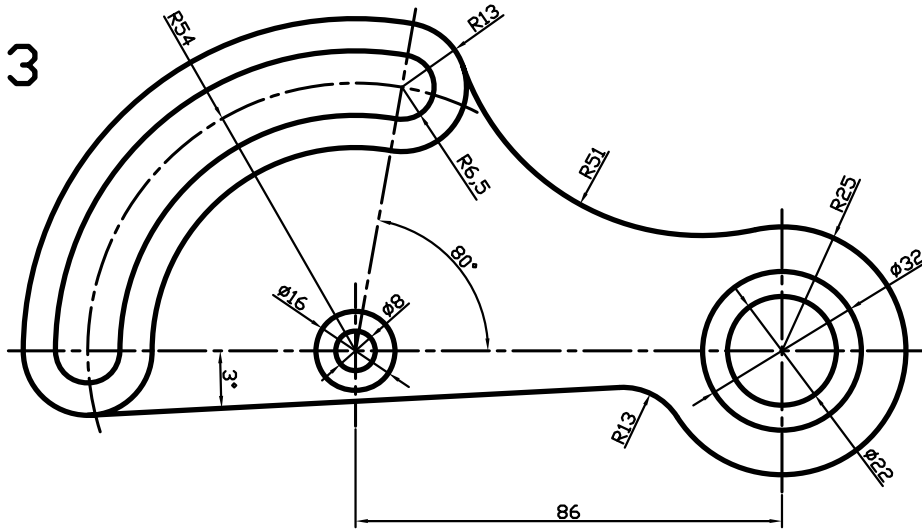
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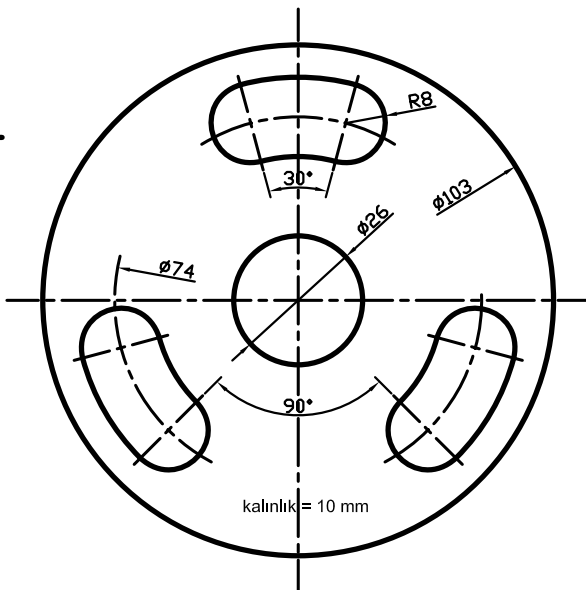
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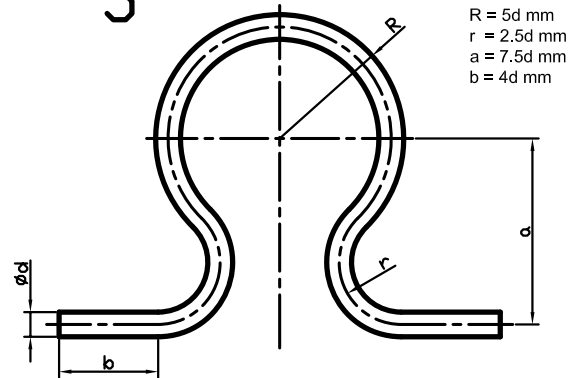
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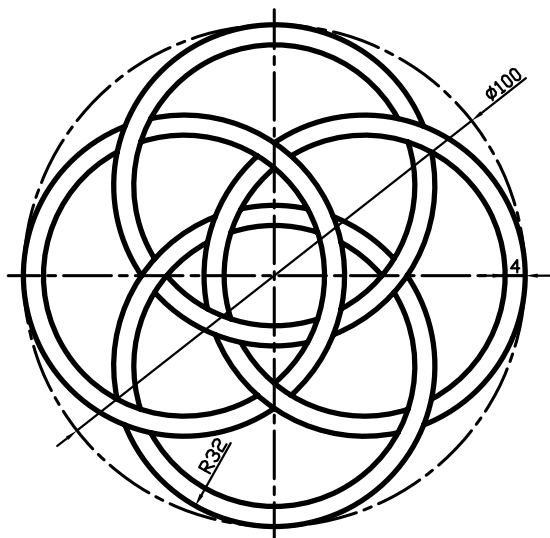


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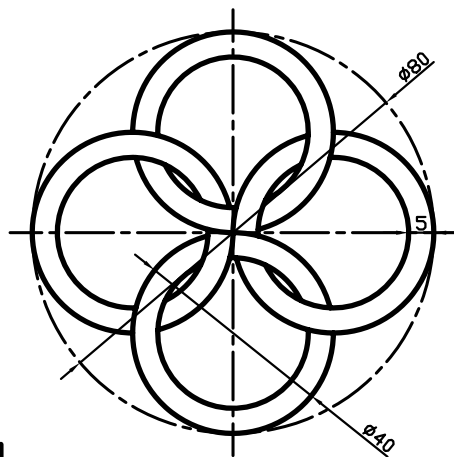


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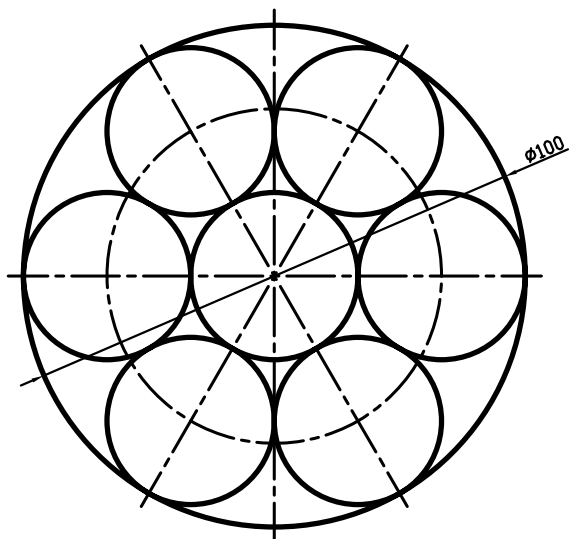
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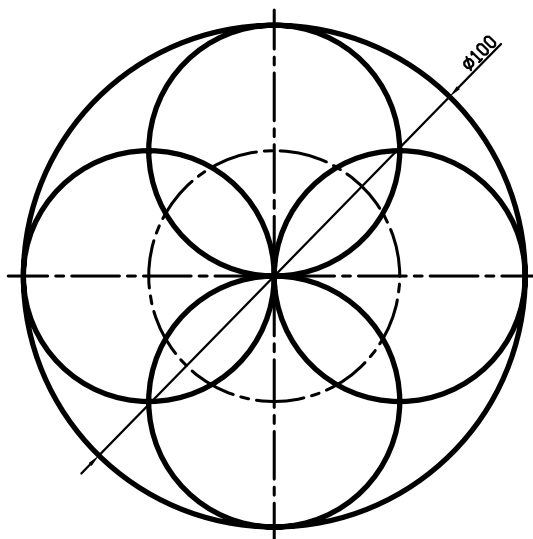
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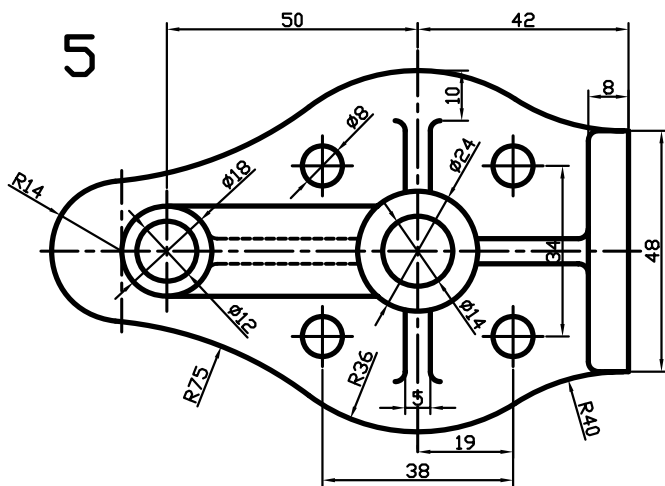
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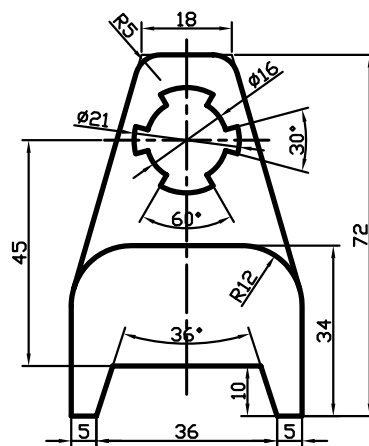
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5



6



43